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DISTANCE TABLES

OF THE

GREAT LAKES

COMPILED AND PUBLISHED BY

LAKE CARRIERS' ASSOCIATION,

CLEVELAND, OHIO.

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DISTANCE TABLES

of the

GREAT LAKES

Compiled and Published

By

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INTRODUCTION

The following tables are based upon the published charts of the United States Lake Survey.

When available, computed distances are employed. Elsewhere distances have been carefully scaled, the largest scale charts prepared for each locality having been utilized.

An effort has been made to limit error resulting from scaling and combining to one mile.

It should be noted that distances here given are average distances and that distances actually logged by vessels may vary slightly from them. For example, distances between two adjacent harbors have been computed on the assumption that a vessel will ordinarily make its turn well off shore in deep water. Under favorable weather conditions the vessel may shorten the distance slightly by skirting the shore more closely or under unfavorable weather conditions may travel a greater distance by keeping farther off shore.

Where there is a choice of routes between two points, unless otherwise specifically stated the shortest usually traveled route has been used.

Attention is especially invited to the fact that up bound and down bound distances between certain ports vary because the accepted up bound and down bound courses through the rivers and through Lakes Superior and Huron have been observed in all computations. For example, the distance down bound from Duluth to Buffalo is 992 miles while the distance up bound from Buffalo to Duluth is 985 miles. Whenever such differences occur the fact is clearly indicated by notes opposite both up bound and down bound distances.

These courses are as follows:

LAKE SUPERIOR

To and from Jackfish Bay and Fort William:—Upbound vessels pass to the eastward and downbound vessels pass to the westward of Caribou Island. For the purpose of computing distances these courses are in every case laid just off Caribou Island in deep water.

Courses to other points on Lake Superior are:—Upbound to the southward and downbound to the northward of a line drawn from point of departure to a point six miles north of Devil's Island, thence to a point ten miles north of Copper Harbor, thence to Whitefish. The inside or upbound courses are the shortest sailing courses. The outside or downbound courses are based on keeping approximately one mile northward from the line above described.

ST. MARYS RIVER

Upbound:—To the eastward of Pipe Island and via Sailors' Encampment.

Downbound:—Via West Neebish Channel and to the westward of Pipe Island.

LAKE HURON

The line separating the inside and outside courses on Lake Huron is laid from Detour Passage to a point ten miles east northeast of Thunder Bay Island Light, thence to a point ten miles off Harbor Beach, thence to Lake Huron Light Vessel.

The inside or upbound courses are the shortest sailing courses. The outside or downbound courses are based on keeping approximately one mile eastward of the line above described.

DETROIT RIVER

Upbound via Amherstburg Channel.

Downbound via Livingstone Channel.

It will be observed that on each lake a limited number of the more important harbors are selected from each of which distances are given to all points on that lake and to all important points on all other lakes. Distances from the less important harbors on each lake are given to all points on that lake only. However, by very simple computation it is possible to determine the distance between any two points on the Great Lakes. Following are typical examples:

1. Distance between two important harbors, as Duluth to Buffalo:
   Distance read directly from tables—992 miles.

2. Distance from important harbor on one lake to less important harbor on another, as Duluth to Vermilion: Find distance on tables from Duluth to Bar Point West Channel Gas Buoy No. 1—758 miles. Add distance from Bar Point West Channel Gas Buoy No. 1 to Vermilion—58 miles, making the total distance—816 miles.

3. Distance between less important harbors on different lakes—as Ontonagon to Vermilion:
   From the tables distance from Ontonagon to Whitefish Point is 236 miles; Whitefish Point to Bar Point West Channel Gas Buoy No. 1—402 miles; Bar Point West Channel Gas Buoy No. 1 to Vermilion—58 miles, or a total distance of 696 miles.

The basic points to be used in combining distances in this manner are:

Lake Superior...	Whitefish Point
Lake Michigan..	Old Mackinac Point
Lake Huron.....	Old Mackinac Point
	Detour
	Fort Gratiot Light
Lake Erie.....	Bar Point West Channel Gas Buoy No. 1 for downbound distances
	Bar Point East Channel Gas and Bell Buoy No. 2 for up bound distances
	Port Colborne
Lake Ontario....	Port Dalhousie

ASHLAND, WIS.
Wharf Front

TO POINTS ON LAKE SUPERIOR

	Miles
DULUTH, MINN., Piers	94
FORT WILLIAM, ONT., Black Gas Buoy	164
GRAND MARAIS, MICH	268
HOUGHTON & HANCOCK, MICH	130
JACKFISH, ONT.	241
MARQUETTE, MICH., Breakwater Light	237
MICHIPICOTEN, ONT.	302
MUNISING, MICH.	260
N. PORTAGE ENTRY, Pier Light	120
ONTONAGON, MICH., Pierhead Light	82

Miles

PENINSULA HARBOR, ONT.....259

PORTAGE ENTRY, Portage River Pierhead Light 145

PORT ARTHUR, ONT., Red Gas Buoy...165

ROCK OF AGES LIGHT.....116

SUPERIOR, WIS., Entry..... 92

TWO HARBORS, MINN., Breakwater Light 72

WHITEFISH POINT 311
via down bound course. For up bound distance see reverse course.

TO POINTS ON ST. MARYS RIVER

Miles

SOO LOCKS, American 352
via down bound course through Lake Superior. For up bound distance see reverse course.

TO PRINCIPAL POINTS ON LAKE MICHIGAN

Via down bound courses through Lake Superior and St. Marys River. For up bound distances see reverse courses.

Miles

CHICAGO, ILL., Pierhead Range Light..767

Via northabout course through Lake Michigan 788

ESCANABA, MICH., West Light.....572
via northabout course and St. Martin Island Passage.

GARY, IND. 779

Via northabout course through Lake Michigan 800

GLADSTONE, MICH. 579
via northabout course and St. Martin Island Passage.

GREEN BAY, WIS., River Mouth.....640
via northabout course and Rock Island Passage.

MILWAUKEE, WIS., Pierhead Range Light 702

Via northabout course through Lake Michigan 719

Miles

OLD MACKINAC POINT.....443

PORTE DES MORTS PASSAGE, Pilot Island Light 567
via northabout course through Lake Michigan.

ROCK ISLAND PASSAGE, Red Gas Buoy No. 2.....549
via northabout course through Lake Michigan.

SHEBOYGAN, WIS., Breakwater Light..655
Via northabout course through Lake Michigan 669

SOUTH CHICAGO, ILL., Pierhead Light.776
Via northabout course through Lake Michigan 796

TO PRINCIPAL POINTS ON LAKE HURON

Via down bound courses through Lake Superior and St. Marys River. For up bound distances see reverse courses.

Miles

DEPOT HARBOR, ONT.....596

DETOUR 401

Miles

FORT GRATIOT LIGHT.....622
via down bound course through Lake Huron. For up bound distance see reverse course.

HARBOR BEACH, MICH., North Main Light.....564
via down bound course through Lake Huron. For up bound distance see reverse course.

OLD MACKINAC POINT.....443

OWEN SOUND, ONT.....592

PARRY SOUND, ONT.....600

ROGERS CITY, MICH.....432

TO PRINCIPAL POINTS ON ST. CLAIR & DETROIT RIVERS

Via down bound courses through Lakes Superior and Huron and St. Marys River. For up bound distances see reverse courses.

Miles

AMHERSTBURG, ONT. 704

BAR POINT WEST CHANNEL GAS BUOY No. 1.....713

	Miles
DETROIT, MICH., Foot Woodward Ave.	686
MARINE CITY, MICH	644
PORT HURON, MICH. (Black River) & SARNIA, ONT.	625
WYANDOTTE, MICH.	696

TO PRINCIPAL POINTS ON LAKE ERIE

Via down bound courses through Lakes Superior and Huron, St. Marys and Detroit rivers. For up bound distances see reverse courses.

	Miles
ASHTABULA, OHIO, Outer Entrance	837
BAR POINT WEST CHANNEL GAS BUOY No. 1	713
BUFFALO, N. Y., Buffalo Light	948
CLEVELAND, OHIO, E. Pier Light	794
CONNEAUT, OHIO, Outer Entrance	851
ERIE, PA., Presque Isle Pierhead Light	878

Miles

FAIRPORT, OHIO, Outer Entrance.....813

HURON, OHIO, Huron Light.....765

LONG POINT 884

LORAIN, OHIO, West Pier Light.....778

PORT COLBORNE, ONT.....930

SANDUSKY, OHIO, E. End Dock Channel 758

TOLEDO, OHIO, Manhattan Front Range Light 739

TO PRINCIPAL POINTS ON LAKE ONTARIO

Via down bound courses through Lakes Superior and Huron, St. Marys and Detroit rivers. For up bound distances see reverse courses.

Miles

ALEXANDRIA BAY, N. Y., Docks.....1147

CAPE VINCENT, N. Y., Breakwater Lights 1120

CHARLOTTE, N. Y., Genesee Lights....1052

Miles

OGDENSBURG, N. Y., Ogdensburg Light 1180

OSWEGO, N. Y., Oswego Light 1102

PORT DALHOUSIE, ONT., Front Range Light 958

PORT WELLER, ONT 958

TORONTO, ONT., Docks 989

DULUTH, MINN.

Piers

TO POINTS ON LAKE SUPERIOR

Miles

ASHLAND, WIS., Wharf Front..... 94

FORT WILLIAM, ONT., Black Gas Buoy 194

GRAND MARAIS, MICH.....317
via down bound course. For up bound distance see reverse course.

HOUGHTON & HANCOCK, MICH.....178

JACKFISH, ONT. 277

MARQUETTE, MICH., Breakwater Light.287
via down bound course. For up bound distance see reverse course.

MICHIPICOTEN, ONT. 347

MUNISING, MICH. 310
via down bound course. For up bound distance see reverse course.

Miles

N. PORTAGE ENTRY, Pier Light.....168

ONTONAGON, MICH., Pierhead Light..137

PENINSULA HARBOR, ONT.....297

PORTAGE ENTRY, Portage River Pierhead Light 193

PORT ARTHUR, ONT., Red Gas Buoy..195

ROCK OF AGES LIGHT.....148

SUPERIOR, WIS., Entry..... 6

TWO HARBORS, MINN., Breakwater Light 25

WHITEFISH POINT 356
via down bound course. For up bound distance see reverse course.

TO POINTS ON ST. MARYS RIVER

Miles

SOO LOCKS, American.....397
via down bound course through Lake Superior. For up bound distance see reverse course.

TO PRINCIPAL POINTS ON LAKE MICHIGAN

Via down bound courses through Lake Superior and St. Marys River. For up bound distances see reverse courses.

Miles

CHICAGO, ILL., Pierhead Range Light..812

Via northabout course through Lake Michigan 833

ESCANABA, MICH., West Light.....617
via northabout course and St. Martin Island Passage.

GARY, IND. 824

Via northabout course through Lake Michigan 845

GLADSTONE, MICH. 624
via northabout course and St. Martin Island Passage.

GREEN BAY, WIS., River Mouth.....685
via northabout course and Rock Island Passage.

MILWAUKEE, WIS., Pierhead Range Light 747

Via northabout course through Lake Michigan 764

OLD MACKINAC POINT.....488

Miles

PORTE DES MORTS PASSAGE, Pilot Island Light 612
via northabout course through Lake Michigan.

ROCK ISLAND PASSAGE, Red Gas Buoy No. 2.....594
via northabout course through Lake Michigan.

SHEBOYGAN, WIS., Breakwater Light..700
Via northabout course through Lake Michigan 714

SOUTH CHICAGO, ILL., Pierhead Light.821
Via northabout course through Lake Michigan 841

TO PRINCIPAL POINTS ON LAKE HURON

Via down bound courses through Lake Superior and St. Marys River. For up bound distances see reverse courses.

Miles

DEPOT HARBOR, ONT.....641

DETOUR 446

Miles

FORT GRATIOT LIGHT.....667
via down bound course through Lake Huron. For up bound distance see reverse course.

HARBOR BEACH, MICH., North Main Light 609
via down bound course through Lake Huron. For up bound distance see reverse course.

OLD MACKINAC POINT.....448

OWEN SOUND, ONT.....637

PARRY SOUND, ONT.....645

ROGERS CITY, MICH.....477

TO PRINCIPAL POINTS ON ST. CLAIR & DETROIT RIVERS

Via down bound courses through Lakes Superior and Huron and St. Marys River. For up bound distances see reverse courses.

Miles

AMHERSTBURG, ONT. 749

BAR POINT WEST CHANNEL GAS BUOY No. 1.....758

	Miles
DETROIT, MICH., Foot Woodward Ave.	731
MARINE CITY, MICH	689
PORT HURON, MICH. (Black River) & SARNIA, ONT.	670
WYANDOTTE, MICH.	741

TO PRINCIPAL POINTS ON LAKE ERIE

Via down bound courses through Lakes Superior and Huron and St. Marys and Detroit rivers. For up bound distances see reverse courses.

	Miles
ASHTABULA, OHIO, Outer Entrance	882
BAR POINT WEST CHANNEL GAS BUOY No. 1	758
BUFFALO, N. Y., Buffalo Light	992
CLEVELAND, OHIO, E. Pier Light	839
CONNEAUT, OHIO, Outer Entrance	896
ERIE, PA., Presque Isle Pierhead Light	923

	Miles
FAIRPORT, OHIO, Outer Entrance	858
HURON, OHIO, Huron Light	810
LONG POINT	929
LORAIN, OHIO, West Pier Light	822
PORT COLBORNE, ONT	975
SANDUSKY, OHIO, E. End Dock Channel	803
TOLEDO, OHIO, Manhattan Front Range Light	784

TO PRINCIPAL POINTS ON LAKE ONTARIO

Via down bound courses through Lakes Superior and Huron and St. Marys and Detroit rivers. For up bound distances see reverse courses.

	Miles
ALEXANDRIA BAY, N. Y., Docks	1192
CAPE VINCENT, N. Y., Breakwater Lights	1165

Miles

CHARLOTTE, N. Y., Genesee Lights...1097

OGDENSBURG, N. Y., Ogdensburg Light 1225

OSWEGO, N. Y., Oswego Light.....1147

PORT DALHOUSIE, ONT., Front Range Light 1003

PORT WELLER, ONT.....1003

TORONTO, ONT., Docks.....1034

FORT WILLIAM, ONT.
Black Gas Buoy

TO POINTS ON LAKE SUPERIOR

	Miles
ASHLAND, WIS., Wharf Front	164
DULUTH, MINN., Piers	194
GRAND MARAIS, MICH	195
HOUGHTON & HANCOCK, MICH	113
JACKFISH, ONT.	114
MARQUETTE, MICH., Breakwater Light	169
MICHIPICOTEN, ONT.	207
MUNISING, MICH.	192
N. PORTAGE ENTRY, Pier Light	103
ONTONAGON, MICH, Pierhead Light	116
PASSAGE ISLAND LIGHT	42

Miles

PENINSULA HARBOR, ONT.....138

PORTAGE ENTRY, Portage River Pierhead Light 128

PORT ARTHUR, ONT., Red Gas Buoy... 2

ROCK OF AGES LIGHT..... 48

SUPERIOR, WIS., Entry.....194

TWO HARBORS, MINN., Breakwater Light 169

WHITEFISH POINT 229
via down bound course. For up bound distance see reverse course.

TO POINTS ON ST. MARYS RIVER

Miles

SOO LOCKS, American.....270
via down bound course through Lake Superior. For up bound distance see reverse course.

TO PRINCIPAL POINTS ON LAKE MICHIGAN

Via down bound courses through Lake Superior and St. Marys River. For up bound distances see reverse courses.

Miles

CHICAGO, ILL., Pierhead Range Light..685

Via northabout course through Lake Michigan 706

ESCANABA, MICH., West Light.....490
via northabout course and St. Martin Island Passage.

GARY, IND. 697

Via northabout course through Lake Michigan 718

GLADSTONE, MICH. 497
via northabout course and St. Martin Island Passage.

GREEN BAY, WIS., River Mouth.....558
via northabout course and Rock Island Passage.

MILWAUKEE, WIS., Pierhead Range Light 620

Via northabout course through Lake Michigan 637

OLD MACKINAC POINT.....361

Miles

PORTE DES MORTS PASSAGE, Pilot Island Light 485
via northabout course through Lake Michigan.

ROCK ISLAND PASSAGE, Red Gas Buoy No. 2.....467
via northabout course through Lake Michigan.

SHEBOYGAN, WIS., Breakwater Light..573
Via northabout course through Lake Michigan 587

SOUTH CHICAGO, ILL., Pierhead Light.694
Via northabout course through Lake Michigan 714

TO PRINCIPAL POINTS ON LAKE HURON

Via down bound courses through Lake Superior and St. Marys River. For up bound distances see reverse courses.

Miles

DEPOT HARBOR, ONT.....514

DETOUR 319

Miles

FORT GRATIOT LIGHT.....540
via down bound course through Lake Huron. For up bound distance see reverse course.

HARBOR BEACH, MICH., North Main Light 482
via down bound course through Lake Huron. For up bound distance see reverse course.

OLD MACKINAC POINT.....361

OWEN SOUND, ONT.....510

PARRY SOUND, ONT.....518

ROGERS CITY, MICH.....350

TO PRINCIPAL POINTS ON ST. CLAIR & DETROIT RIVERS

Via down bound courses through Lakes Superior and Huron and St. Marys River. For up bound distances see reverse courses.

Miles

AMHERSTBURG, ONT. 622

BAR POINT WEST CHANNEL GAS BUOY No. 1.....631

	Miles
DETROIT, MICH., Foot Woodward Ave.	604
MARINE CITY, MICH.	562
PORT HURON, MICH. (Black River) & SARNIA, ONT.	543
WYANDOTTE, MICH.	614

TO PRINCIPAL POINTS ON LAKE ERIE

Via down bound courses through Lakes Superior and Huron and St. Marys and Detroit rivers. For up bound distances see reverse courses.

	Miles
ASHTABULA, OHIO, Outer Entrance	755
BAR POINT WEST CHANNEL GAS BUOY No. 1	631
BUFFALO, N. Y., Buffalo Light	865
CLEVELAND, OHIO, E. Pier Light	712
CONNEAUT, OHIO, Outer Entrance	769

Miles

ERIE, PA., Presque Isle Pierhead Light...796

FAIRPORT, OHIO, Outer Entrance.....731

HURON, OHIO, Huron Light.....683

LONG POINT 802

LORAIN, OHIO, West Pier Light.....695

PORT COLBORNE, ONT.....848

SANDUSKY, OHIO, E. End Dock Channel 676

TOLEDO, OHIO, Manhattan Front Range Light 657

TO PRINCIPAL POINTS ON LAKE ONTARIO

Via down bound courses through Lakes Superior and Huron and St. Marys and Detroit rivers. For up bound distances see reverse courses.

Miles

ALEXANDRIA BAY, N. Y., Docks.....1065

CAPE VINCENT, N. Y., Breakwater Lights 1038

Fort William, Ont.—Cont.

Miles

CHARLOTTE, N. Y., Genesee Lights....970

OGDENSBURG, N. Y., Ogdensburg Light 1098

OSWEGO, N. Y., Oswego Light.....1020

PORT DALHOUSIE, ONT., Front Range Light 876

PORT WELLER, ONT.....876

TORONTO, ONT., Docks.....907

GRAND MARAIS, MICH.

TO POINTS ON LAKE SUPERIOR

Miles

ASHLAND, WIS., Wharf Front.....268

DULUTH, MINN., Piers.....313
via up bound course. For down bound distance see reverse course.

FORT WILLIAM, ONT., Black Gas Buoy.195

HOUGHTON & HANCOCK, MICH.....133

JACKFISH, ONT. 153

MARQUETTE, MICH., Breakwater Light 69

MICHIPICOTEN, ONT. 100

MUNISING, MICH. 40

N. PORTAGE ENTRY, Pier Light.....144

ONTONAGON, MICH., Pierhead Light 193

PENINSULA HARBOR, ONT.....141

Miles

PORTAGE ENTRY, Portage River Pierhead Light 119

PORT ARTHUR, ONT, Red Gas Buoy...196

SUPERIOR, WIS., Entry.....311
via up bound course. For down bound distance see reverse course.

TWO HARBORS, MINN., Breakwater Light 290
via up bound course. For down bound distance see reverse course.

WHITEFISH POINT 51

HOUGHTON AND HANCOCK, MICH.

TO POINTS ON LAKE SUPERIOR

	Miles
ASHLAND, WIS., Wharf Front	130
DULUTH, MINN., Piers	178
FORT WILLIAM, ONT., Black Gas Buoy	113
GRAND MARAIS, MICH	133
JACKFISH, ONT. via North Entry.	144
MARQUETTE, MICH., Breakwater Light	82
MICHIPICOTEN, ONT. via South Entry.	194
MUNISING, MICH.	114
N. PORTAGE ENTRY, Pier Light	10
ONTONAGON, MICH., Pierhead Light	54

Miles

PENINSULA HARBOR, ONT.....157
via North Entry.

PORTAGE ENTRY, Portage River Pierhead Light 15

PORT ARTHUR, ONT., Red Gas Buoy..114

ROCK OF AGES LIGHT..... 65

SUPERIOR, WIS., Entry.....176

TWO HARBORS, MINN., Breakwater Light 155

WHITEFISH POINT 180

TO POINTS ON ST. MARYS RIVER

Miles

SOO LOCKS, American.....221

TO PRINCIPAL POINTS ON LAKE MICHIGAN

Via down bound course through St. Marys River. For up bound distances see reverse courses.

Miles

CHICAGO, ILL., Pierhead Range Light..636

Via northabout course through Lake Michigan 657

ESCANABA, MICH., West Light.....441
via northabout course and St. Martin Island Passage.

GARY, IND. 648

Via northabout course through Lake Michigan 669

GLADSTONE, MICH. 448
via northabout course and St. Martin Island Passage.

GREEN BAY, WIS., River Mouth.....509
via northabout course and Rock Island Passage.

MILWAUKEE, WIS., Pierhead Range Light 571

Via northabout course through Lake Michigan 588

OLD MACKINAC POINT.....312

PORTE DES MORTS PASSAGE, Pilot Island Light 436
via northabout course through Lake Michigan.

Miles

ROCK ISLAND PASSAGE, Red Gas Buoy No. 2.....418
via northabout course through Lake Michigan.

SHEBOYGAN, WIS., Breakwater Light..524
Via northabout course through Lake Michigan 538

SOUTH CHICAGO, ILL., Pierhead Light.645
Via northabout course through Lake Michigan 665

TO PRINCIPAL POINTS ON LAKE HURON

Via down bound course through St. Marys River. For up bound distances see reverse courses.

Miles

DEPOT HARBOR, ONT.....465

DETOUR 270

FORT GRATIOT LIGHT.....491
via down bound course through Lake Huron. For up bound distance see reverse course.

Miles

HARBOR BEACH, MICH., North Main Light 433
via down bound course through Lake Huron. For up bound distance see reverse course.

OLD MACKINAC POINT 312

OWEN SOUND, ONT 461

PARRY SOUND, ONT 469

ROGERS CITY, MICH 301

TO PRINCIPAL POINTS ON ST. CLAIR & DETROIT RIVERS

Via down bound courses through St. Marys River and Lake Huron. For up bound distances see reverse courses.

Miles

AMHERSTBURG, ONT. 573

BAR POINT WEST CHANNEL GAS BUOY No. 1 582

DETROIT, MICH., Foot Woodward Ave.. 555

MARINE CITY, MICH 513

Miles

PORT HURON, MICH. (Black River) & SARNIA, ONT. 494

WYANDOTTE, MICH. 565

TO PRINCIPAL POINTS ON LAKE ERIE

Via down bound courses through St. Marys and Detroit rivers and Lake Huron. For up bound distances see reverse courses.

Miles

ASHTABULA, OHIO, Outer Entrance...706

BAR POINT WEST CHANNEL GAS BUOY No. 1.....582

BUFFALO, N. Y., Buffalo Light.....816

CLEVELAND, OHIO, E. Pier Light.....663

CONNEAUT, OHIO, Outer Entrance....720

ERIE, PA., Presque Isle Pierhead Light...747

FAIRPORT, OHIO, Outer Entrance.....682

HURON, OHIO, Huron Light.....634

	Miles
LONG POINT	753
LORAIN, OHIO, West Pier Light	646
PORT COLBORNE, ONT	799
SANDUSKY, OHIO, E. End Dock Channel	627
TOLEDO, OHIO, Manhattan Front Range Light	608

TO PRINCIPAL POINTS ON LAKE ONTARIO

Via down bound courses through St. Marys and Detroit rivers and Lake Huron. For up bound distances see reverse courses.

	Miles
ALEXANDRIA BAY, N. Y., Docks	1016
CAPE VINCENT, N. Y., Breakwater Lights	989
CHARLOTTE, N. Y., Genesee Lights	921
OGDENSBURG, N. Y., Ogdensburg Light	1049

Miles

OSWEGO, N. Y., Oswego Light.....971

PORT DALHOUSIE, ONT., Front Range Light 827

PORT WELLER, ONT.....827

TORONTO, ONT., Docks.....858

JACKFISH, ONT.

TO POINTS ON LAKE SUPERIOR

	Miles
ASHLAND, WIS., Wharf Front	241
DULUTH, MINN., Piers	277
FORT WILLIAM, ONT., Black Gas Buoy	114
GRAND MARAIS, MICH	153
HOUGHTON & HANCOCK, MICH via North Entry.	144
MARQUETTE, MICH., Breakwater Light	160
MICHIPICOTEN, ONT.	127
MUNISING, MICH.	168
N. PORTAGE ENTRY, Pier Light	134
ONTONAGON, MICH., Pierhead Light	174
PENINSULA HARBOR, ONT	33

Miles

PORTAGE ENTRY, Portage River Pierhead Light 152

PORT ARTHUR, ONT., Red Gas Buoy..115

SUPERIOR, WIS., Entry.....277

TWO HARBORS, MINN., Breakwater Light 252

WHITEFISH POINT 171
via down bound course. For up bound distance see reverse course.

TO POINTS ON ST. MARYS RIVER

Miles

SOO LOCKS, American.....212
via down bound course through Lake Superior. For up bound distance see reverse course.

TO PRINCIPAL POINTS ON LAKE MICHIGAN

Via down bound courses through Lake Superior and St. Marys River. For up bound distances see reverse courses.

Miles

CHICAGO, ILL., Pierhead Range Light..627

Via northabout course through Lake Michigan 648

ESCANABA, MICH., West Light.....432
via northabout course and St. Martin Island Passage.

GARY, IND. 639

Via northabout course through Lake Michigan 660

GLADSTONE, MICH. 439
via northabout course and St. Martin Island Passage.

GREEN BAY, WIS., River Mouth.....500
via northabout course and Rock Island Passage.

MILWAUKEE, WIS., Pierhead Range Light 562

Via northabout course through Lake Michigan 579

OLD MACKINAC POINT.....303

Miles

PORTE DES MORTS PASSAGE, Pilot Island Light 427
via northabout course through Lake Michigan.

ROCK ISLAND PASSAGE, Red Gas Buoy No. 2.....409
via northabout course through Lake Michigan.

SHEBOYGAN, WIS., Breakwater Light..515
Via northabout course through Lake Michigan 529

SOUTH CHICAGO, ILL., Pierhead Light.636
Via northabout course through Lake Michigan 656

TO PRINCIPAL POINTS ON LAKE HURON

Via down bound courses through Lake Superior and St. Marys River. For up bound distances see reverse courses.

Miles

DEPOT HARBOR, ONT.....456

DETOUR 261

Miles

FORT GRATIOT LIGHT.....482
via down bound course through Lake Huron. For up bound distance see reverse course.

HARBOR BEACH, MICH., North Main Light 424
via down bound course through Lake Huron. For up bound distance see reverse course.

OLD MACKINAC POINT.....303

OWEN SOUND, ONT.....452

PARRY SOUND, ONT.....460

ROGERS CITY, MICH.....292

TO PRINCIPAL POINTS ON ST. CLAIR & DETROIT RIVERS

Via down bound courses through Lakes Superior and Huron and St. Marys River. For up bound distances see reverse courses.

Miles

AMHERSTBURG, ONT. 564

BAR POINT WEST CHANNEL GAS BUOY No. 1.....573

Miles

DETROIT, MICH., Foot Woodward Ave..546

MARINE CITY, MICH.....504

PORT HURON, MICH. (Black River) & SARNIA, ONT. 485

WYANDOTTE, MICH. 556

TO PRINCIPAL POINTS ON LAKE ERIE

Via down bound courses through Lakes Superior and Huron and St. Marys and Detroit rivers. For up bound distances see reverse courses.

Miles

ASHTABULA, OHIO, Outer Entrance...697

BAR POINT WEST CHANNEL GAS BUOY No. 1.....573

BUFFALO, N. Y., Buffalo Light.....807

CLEVELAND, OHIO, E. Pier Light.....654

CONNEAUT, OHIO, Outer Entrance....711

ERIE, PA., Presque Isle Pierhead Light...738

	Miles
FAIRPORT, OHIO, Outer Entrance	673
HURON, OHIO, Huron Light	625
LONG POINT	744
LORAIN, OHIO, West Pier Light	637
PORT COLBORNE, ONT	790
SANDUSKY, OHIO, E. End Dock Channel	618
TOLEDO, OHIO, Manhattan Front Range Light	599

TO PRINCIPAL POINTS ON LAKE ONTARIO

Via down bound courses through Lakes Superior and Huron and St. Marys and Detroit rivers. For up bound distances see reverse courses.

	Miles
ALEXANDRIA BAY, N. Y., Docks	1007
CAPE VINCENT, N. Y., Breakwater Lights	980

Miles

CHARLOTTE, N. Y., Genesee Lights.....912

OGDENSBURG, N. Y., Ogdensburg Light 1040

OSWEGO, N. Y., Oswego Light.....962

PORT DALHOUSIE, ONT., Front Range Light 818

PORT WELLER, ONT.....818

TORONTO, ONT., Docks.....849

MARQUETTE, MICH.

Breakwater Light

TO POINTS ON LAKE SUPERIOR

	Miles
ASHLAND, WIS., Wharf Front	237
DULUTH, MINN., Piers via up bound course. For down bound distance see reverse course.	282
FORT WILLIAM, ONT., Black Gas Buoy	169
GRAND MARAIS, MICH	69
HOUGHTON & HANCOCK, MICH	82
JACKFISH, ONT.	160
MICHIPICOTEN, ONT.	152
MUNISING, MICH.	42
N. PORTAGE ENTRY, Pier Light	93

Miles

ONTONAGON, MICH., Pierhead Light..137
via Portage Canal.

PASSAGE ISLAND LIGHT.....127

PENINSULA HARBOR, ONT.....157

PORTAGE ENTRY, Portage River Pierhead Light 68

PORT ARTHUR, ONT., Red Gas Buoy..170

SUPERIOR, WIS., Entry.....280
via up bound course. For down bound distance see reverse course.

TWO HARBORS, MINN., Breakwater Light 258
via up bound course. For down bound distance see reverse course.

WHITEFISH POINT 117

TO POINTS ON ST. MARYS RIVER

Miles

SOO LOCKS, American.....158

TO PRINCIPAL POINTS ON LAKE MICHIGAN

Via down bound course through St. Marys River. For up bound distances see reverse courses.

Miles

CHICAGO, ILL., Pierhead Range Light..573

Via northabout course through Lake Michigan 594

ESCANABA, MICH., West Light.....378
via northabout course and St. Martin Island Passage.

GARY, IND. 585

Via northabout course through Lake Michigan 606

GLADSTONE, MICH. 385
via northabout course and St. Martin Island Passage.

GREEN BAY, WIS., River Mouth.....446
via northabout course and Rock Island Passage.

MILWAUKEE, WIS., Pierhead Range Light 508

Via northabout course through Lake Michigan 525

OLD MACKINAC POINT.....249

Miles

PORTE DES MORTS PASSAGE, Pilot Island Light 373
via northabout course through Lake Michigan.

ROCK ISLAND PASSAGE, Red Gas Buoy No. 2.....355
via northabout course through Lake Michigan.

SHEBOYGAN, WIS., Breakwater Light..461
Via northabout course through Lake Michigan 475

SOUTH CHICAGO, ILL., Pierhead Light.582
Via northabout course through Lake Michigan 602

TO PRINCIPAL POINTS ON LAKE HURON

Via down bound course through St. Marys River. For up bound distances see reverse courses.

Miles

DEPOT HARBOR, ONT.....402

DETOUR 207

Miles

FORT GRATIOT LIGHT.....428
via down bound course through Lake Huron. For up bound distance see reverse course.

HARBOR BEACH, MICH., North Main Light 370
via down bound course through Lake Huron. For up bound distance see reverse course.

OLD MACKINAC POINT.....249

OWEN SOUND, ONT.....398

PARRY SOUND, ONT.....406

ROGERS CITY, MICH.....238

TO PRINCIPAL POINTS ON ST. CLAIR & DETROIT RIVERS

Via down bound courses through St. Marys River and Lake Huron. For up bound distances see reverse courses.

Miles

AMHERSTBURG, ONT. 510

BAR POINT WEST CHANNEL GAS BUOY No. 1.....519

Miles

DETROIT, MICH., Foot Woodward Ave..492

MARINE CITY, MICH.....450

PORT HURON, MICH. (Black River) & SARNIA, ONT. 431

WYANDOTTE, MICH. 502

TO PRINCIPAL POINTS ON LAKE ERIE

Via down bound courses through Lake Huron, St. Marys and Detroit rivers. For up bound distances see reverse courses.

Miles

ASHTABULA, OHIO, Outer Entrance...643

BAR POINT WEST CHANNEL GAS BUOY No. 1.....519

BUFFALO, N. Y., Buffalo Light.....753

CLEVELAND, OHIO, E. Pier Light.....600

CONNEAUT, OHIO, Outer Entrance.....657

ERIE, PA., Presque Isle Pierhead Light...684

	Miles
FAIRPORT, OHIO, Outer Entrance	619
HURON, OHIO, Huron Light	571
LONG POINT	690
LORAIN, OHIO, West Pier Light	583
PORT COLBORNE, ONT	736
SANDUSKY, OHIO, E. End Dock Channel	564
TOLEDO, OHIO, Manhattan Front Range Light	545

TO PRINCIPAL POINTS ON LAKE ONTARIO

Via down bound courses through Lake Huron, St. Marys and Detroit rivers. For up bound distances see reverse courses.

	Miles
ALEXANDRIA BAY, N. Y., Docks	953
CAPE VINCENT, N. Y., Breakwater Lights	926

Miles

CHARLOTTE, N. Y., Genesee Lights....858

OGDENSBURG, N. Y., Ogdensburg Light 986

OSWEGO, N. Y., Oswego Light.....908

PORT DALHOUSIE, ONT., Front Range Light 764

PORT WELLER, ONT.....764

TORONTO, ONT., Docks.....795

MICHIPICOTEN, ONT.

TO POINTS ON LAKE SUPERIOR

	Miles
ASHLAND, WIS., Wharf Front	302
DULUTH, MINN., Piers	347
FORT WILLIAM, ONT., Black Gas Buoy	207
GRAND MARAIS, MICH	100
HOUGHTON & HANCOCK, MICH via South Entry.	194
JACKFISH, ONT.	127
MARQUETTE, MICH., Breakwater Light	152
MUNISING, MICH.	134
N. PORTAGE ENTRY, Pier Light	188
ONTONAGON, MICH., Pierhead Light	228

Miles

PASSAGE ISLAND LIGHT.....165

PENINSULA HARBOR, ONT.....111

PORTAGE ENTRY, Portage River Pierhead Light 179

PORT ARTHUR, ONT., Red Gas Buoy..208

SUPERIOR, WIS., Entry.....346

TWO HARBORS, MINN., Breakwater Light 324

WHITEFISH POINT 85

MUNISING, MICH.

TO POINTS ON LAKE SUPERIOR

	Miles
ASHLAND, WIS., Wharf Front	260
DULUTH, MINN., Piers via up bound course. For down bound distance see reverse course.	305
FORT WILLIAM, ONT., Black Gas Buoy	192
GRAND MARAIS, MICH	40
HOUGHTON & HANCOCK, MICH	114
JACKFISH, ONT.	168
MARQUETTE, MICH., Breakwater Light	42
MICHIPICOTEN, ONT.	134
N. PORTAGE ENTRY, Pier Light	125
ONTONAGON, MICH., Pierhead Light	185

Miles

PASSAGE ISLAND LIGHT.....150

PENINSULA HARBOR, ONT.....161

PORTAGE ENTRY, Portage River Pierhead Light 99

PORT ARTHUR, ONT., Red Gas Buoy..193

SUPERIOR, WIS., Entry.....303
via up bound course. For down bound distance see reverse course.

TWO HARBORS, MINN., Breakwater Light 281
via up bound course. For down bound distance see reverse course.

WHITEFISH POINT 89

NORTH PORTAGE ENTRY
Pier Light

TO POINTS ON LAKE SUPERIOR

	Miles
ASHLAND, WIS., Wharf Front	120
DULUTH, MINN., Piers	168
FORT WILLIAM, ONT., Black Gas Buoy	103
GRAND MARAIS, MICH	144
HOUGHTON & HANCOCK, MICH	10
JACKFISH, ONT.	134
MARQUETTE, MICH., Breakwater Light	93
MICHIPICOTEN, ONT.	188
MUNISING, MICH.	125
ONTONAGON, MICH., Pierhead Light	44

Miles

PENINSULA HARBOR, ONT.....147

PORTAGE ENTRY, Portage River Pierhead Light 25

PORT ARTHUR, ONT., Red Gas Buoy..104

ROCK OF AGES LIGHT..... 55

SUPERIOR, WIS., Entry.....166

TWO HARBORS, MINN., Breakwater Light 145

WHITEFISH POINT 191

ONTONAGON, MICH.

Pierhead Light

TO POINTS ON LAKE SUPERIOR

	Miles
ASHLAND, WIS., Wharf Front	82
DULUTH, MINN., Piers	137
FORT WILLIAM, ONT., Black Gas Buoy	116
GRAND MARAIS, MICH	193
HOUGHTON & HANCOCK, MICH	54
JACKFISH, ONT.	174
MARQUETTE, MICH., Breakwater Light via Portage Canal.	137
MICHIPICOTEN, ONT.	228
MUNISING, MICH.	185

Miles

N. PORTAGE ENTRY, Pier Light..... 44

PENINSULA HARBOR, ONT.....188

PORTAGE ENTRY, Portage River Pierhead Light 69

PORT ARTHUR, ONT., Red Gas Buoy..118

ROCK OF AGES LIGHT..... 68

SUPERIOR, WIS., Entry.....135

TWO HARBORS, MINN., Breakwater Light 114

WHITEFISH POINT 236
via down bound course. For up bound distance see reverse course.

PASSAGE ISLAND LIGHT

TO POINTS ON LAKE SUPERIOR

	Miles
FORT WILLIAM, ONT., Black Gas Buoy.	42
MARQUETTE, MICH., Breakwater Light.	127
MICHIPICOTEN, ONT.	165
MUNISING, MICH.	150
PORT ARTHUR, ONT., Red Gas Buoy..	43
WHITEFISH POINT	187

via down bound course through Lake Superior. For up bound distance see reverse course.

PENINSULA HARBOR, ONT.

TO POINTS ON LAKE SUPERIOR

	Miles
ASHLAND, WIS., Wharf Front	259
DULUTH, MINN., Piers	297
FORT WILLIAM, ONT., Black Gas Buoy	138
GRAND MARAIS, MICH	141
HOUGHTON & HANCOCK, MICH via North Entry.	157
JACKFISH, ONT.	33
MARQUETTE, MICH., Breakwater Light	157
MICHIPICOTEN, ONT.	111
MUNISING, MICH.	161
N. PORTAGE ENTRY, Pier Light	147

Peninsula Harbor, Ont.—Cont.

Miles

ONTONAGON, MICH., Pierhead Light..188

PORTAGE ENTRY, Portage River Pierhead Light 156

PORT ARTHUR, ONT., Red Gas Buoy..139

SUPERIOR, WIS., Entry.....296

TWO HARBORS, MINN., Breakwater Light 273

WHITEFISH POINT 155

PORTAGE ENTRY

Portage River Pierhead Light

TO POINTS ON LAKE SUPERIOR

	Miles
ASHLAND, WIS., Wharf Front	145
DULUTH, MINN., Piers	193
FORT WILLIAM, ONT., Black Gas Buoy	128
GRAND MARAIS, MICH	119
HOUGHTON & HANCOCK, MICH	15
JACKFISH, ONT.	152
MARQUETTE, MICH., Breakwater Light	68
MICHIPICOTEN, ONT.	179
MUNISING, MICH.	99
N. PORTAGE ENTRY, Pier Light	25

Portage Entry—Cont.

Miles

ONTONAGON, MICH., Pierhead Light.. 69

PENINSULA HARBOR, ONT.....156

PORT ARTHUR, ONT., Red Gas Buoy..129

SUPERIOR, WIS., Entry.....191

TWO HARBORS, MINN., Breakwater Light 170

WHITEFISH POINT 165

PORT ARTHUR, ONT.
Red Gas Buoy

TO POINTS ON LAKE SUPERIOR

	Miles
ASHLAND, WIS., Wharf Front	165
DULUTH, MINN., Piers	195
FORT WILLIAM, ONT., Black Gas Buoy.	2
GRAND MARAIS, MICH	196
HOUGHTON & HANCOCK, MICH	114
JACKFISH, ONT.	115
MARQUETTE, MICH., Breakwater Light	170
MICHIPICOTEN, ONT.	208
MUNISING, MICH.	193
N. PORTAGE ENTRY, Pier Light	104

Miles

ONTONAGON, MICH., Pierhead Light..118

PASSAGE ISLAND LIGHT..... 43

PENINSULA HARBOR, ONT.....139

PORTAGE ENTRY, Portage River Pierhead Light 129

ROCK OF AGES LIGHT..... 49

SUPERIOR, WIS., Entry.....195

TWO HARBORS, MINN., Breakwater Light 170

WHITEFISH POINT 230
via down bound course. For up bound distance see reverse course.

TO POINTS ON ST. MARYS RIVER

Miles

SOO LOCKS, American.....271
via down bound course through Lake Superior. For up bound distance see reverse course.

TO PRINCIPAL POINTS ON LAKE MICHIGAN

Via down bound courses through Lake Superior and St. Marys River. For up bound distances see reverse courses.

Miles

CHICAGO, ILL., Pierhead Range Light..686

Via northabout course through Lake Michigan 707

ESCANABA, MICH., West Light.....491
via northabout course and St. Martin Island Passage.

GARY, IND. 698

Via northabout course through Lake Michigan 719

GLADSTONE, MICH. 498
via northabout course and St. Martin Island Passage.

GREEN BAY, WIS., River Mouth.....559
via northabout course and Rock Island Passage.

MILWAUKEE, WIS., Pierhead Range Light 621

Via northabout course through Lake Michigan 638

OLD MACKINAC POINT.....362

Miles

PORTE DES MORTS PASSAGE, Pilot Island Light 486
via northabout course through Lake Michigan.

ROCK ISLAND PASSAGE, Red Gas Buoy No. 2.....468
via northabout course through Lake Michigan.

SHEBOYGAN, WIS., Breakwater Light..574
Via northabout course through Lake Michigan 688

SOUTH CHICAGO, ILL., Pierhead Light.695
Via northabout course through Lake Michigan 715

TO PRINCIPAL POINTS ON LAKE HURON

Via down bound courses through Lake Superior and St. Marys River. For up bound distances see reverse courses.

Miles

DEPOT HARBOR, ONT.....515

DETOUR 320

Miles

FORT GRATIOT LIGHT.....541
via down bound course through Lake Huron. For up bound distance see reverse course.

HARBOR BEACH, MICH., North Main Light 483
via down bound course through Lake Huron. For up bound distance see reverse course.

OLD MACKINAC POINT.....362

OWEN SOUND, ONT.....511

PARRY SOUND, ONT.....519

ROGERS CITY, MICH.....351

TO PRINCIPAL POINTS ON ST. CLAIR & DETROIT RIVERS

Via down bound courses through Lakes Superior and Huron, St. Marys and Detroit rivers. For up bound distances see reverse courses.

Miles

AMHERSTBURG, ONT. 623

Miles

BAR POINT WEST CHANNEL GAS BUOY No. 1.....632

DETROIT, MICH., Foot Woodward Ave..605

MARINE CITY, MICH.....563

PORT HURON, MICH. (Black River) & SARNIA, ONT. 544

WYANDOTTE, MICH. 615

TO PRINCIPAL POINTS ON LAKE ERIE

Via down bound courses through Lakes Superior and Huron, St. Marys and Detroit rivers. For up bound distances see reverse courses.

Miles

ASHTABULA, OHIO, Outer Entrance...756

BAR POINT WEST CHANNEL GAS BUOY No. 1.....632

BUFFALO, N. Y., Buffalo Light.....866

CLEVELAND, OHIO, E. Pier Light.....713

	Miles
CONNEAUT, OHIO, Outer Entrance	770
ERIE, PA., Presque Isle Pierhead Light	797
FAIRPORT, OHIO, Outer Entrance	732
HURON, OHIO, Huron Light	684
LONG POINT	803
LORAIN, OHIO, West Pier Light	696
PORT COLBORNE, ONT	849
SANDUSKY, OHIO, E. End Dock Channel	677
TOLEDO, OHIO, Manhattan Front Range Light	658

TO PRINCIPAL POINTS ON LAKE ONTARIO

Via down bound courses through Lakes Superior and Huron, St. Marys and Detroit rivers. For up bound distances see reverse courses.

	Miles
ALEXANDRIA BAY, N. Y., Docks	1066

Port Arthur, Ont.—Cont.

Miles

CAPE VINCENT, N. Y., Breakwater Lights 1039

CHARLOTTE, N. Y., Genesee Lights 971

OGDENSBURG, N. Y., Ogdensburg Light 1099

OSWEGO, N. Y., Oswego Light 1021

PORT DALHOUSIE, ONT., Front Range Light 877

PORT WELLER, ONT 877

TORONTO, ONT., Docks 908

ROCK OF AGES LIGHT

TO POINTS ON LAKE SUPERIOR

	Miles
ASHLAND, WIS., Wharf Front	116
DULUTH, MINN., Piers	148
FORT WILLIAM, ONT., Black Gas Buoy.	48
HOUGHTON & HANCOCK, MICH	65
N. PORTAGE ENTRY, Pier Light	55
ONTONAGON, MICH., Pierhead Light	68
PORT ARTHUR, ONT., Red Gas Buoy	49
SUPERIOR, WIS., Entry	147
TWO HARBORS, MINN., Breakwater Light	123

SUPERIOR, WIS.

Entry

TO POINTS ON LAKE SUPERIOR

	Miles
ASHLAND, WIS., Wharf Front	92
DULUTH, MINN., Piers	6
FORT WILLIAM, ONT., Black Gas Buoy	194
GRAND MARAIS, MICH. via down bound course. For up bound distance see reverse course.	317
HOUGHTON & HANCOCK, MICH	176
JACKFISH, ONT.	277
MARQUETTE, MICH., Breakwater Light via down bound course. For up bound distance see reverse course.	287
MICHIPICOTEN, ONT.	346

Miles

MUNISING, MICH. 310
via down bound course. For up bound distance see reverse course.

N. PORTAGE ENTRY, Pier Light.....166

ONTONAGON, MICH., Pierhead Light...135

PENINSULA HARBOR, ONT.....296

PORTAGE ENTRY, Portage River Pierhead Light 191

PORT ARTHUR, ONT., Red Gas Buoy..195

ROCK OF AGES LIGHT.....147

TWO HARBORS, MINN., Breakwater Light 27

WHITEFISH POINT 356
via down bound course. For up bound distance see reverse course.

TO POINTS ON ST. MARYS RIVER

Miles

SOO LOCKS, American.....397
via down bound course through Lake Superior. For up bound distance see reverse course.

TO PRINCIPAL POINTS ON LAKE MICHIGAN

Via down bound courses through Lake Superior and St. Marys River. For up bound distances see reverse courses.

Miles

CHICAGO, ILL., Pierhead Range Light..812

Via northabout course through Lake Michigan 833

ESCANABA, MICH., West Light.....617
via northabout course and St. Martin Island Passage.

GARY, IND. 824

Via northabout course through Lake Michigan 845

GLADSTONE, MICH. 624
via northabout course and St. Martin Island Passage.

GREEN BAY, WIS., River Mouth.....685
via northabout course and Rock Island Passage.

MILWAUKEE, WIS., Pierhead Range Light 747

Via northabout course through Lake Michigan , ...764

OLD MACKINAC POINT.....488

Miles

PORTE DES MORTS PASSAGE, Pilot Island Light 612
via northabout course through Lake Michigan.

ROCK ISLAND PASSAGE, Red Gas Buoy No. 2.....594
via northabout course through Lake Michigan.

SHEBOYGAN, WIS., Breakwater Light..700
Via northabout course through Lake Michigan 714

SOUTH CHICAGO, ILL., Pierhead Light.821
Via northabout course through Lake Michigan 841

TO PRINCIPAL POINTS ON LAKE HURON

Via down bound courses through Lake Superior and St. Marys River. For up bound distances see reverse courses.

Miles

DEPOT HARBOR, ONT.....641

DETOUR 446

Miles

FORT GRATIOT LIGHT.....667
via down bound course through Lake Huron. For up bound distance see reverse course.

HARBOR BEACH, MICH., North Main Light.....609
via down bound course through Lake Huron. For up bound distance see reverse course.

OLD MACKINAC POINT.....488

OWEN SOUND, ONT.....637

PARRY SOUND, ONT.....645

ROGERS CITY, MICH.....477

TO PRINCIPAL POINTS ON ST. CLAIR & DETROIT RIVERS

Via down bound courses through Lakes Superior and Huron and St. Marys River. For up bound distances see reverse courses.

Miles

AMHERSTBURG, ONT. 749

BAR POINT WEST CHANNEL GAS BUOY No. 1.....758

Miles

DETROIT, MICH., Foot Woodward Ave..731

MARINE CITY, MICH.....689

PORT HURON, MICH. (Black River) & SARNIA, ONT. 670

WYANDOTTE, MICH. 741

TO PRINCIPAL POINTS ON LAKE ERIE

Via down bound courses through Lakes Superior and Huron, St. Marys and Detroit rivers. For up bound distances see reverse courses.

Miles

ASHTABULA, OHIO, Outer Entrance...882

BAR POINT WEST CHANNEL GAS BUOY No. 1.....758

BUFFALO, N. Y., Buffalo Light.....992

CLEVELAND, OHIO, E. Pier Light.....839

CONNEAUT, OHIO, Outer Entrance....896

Miles

ERIE, PA., Presque Isle Pierhead Light...923

FAIRPORT, OHIO, Outer Entrance.....858

HURON, OHIO, Huron Light.....810

LONG POINT 929

LORAIN, OHIO, West Pier Light.....822

PORT COLBORNE, ONT.....975

SANDUSKY, OHIO, E. End Dock Channel 803

TOLEDO, OHIO, Manhattan Front Range Light 784

TO PRINCIPAL POINTS ON LAKE ONTARIO

Via down bound courses through Lakes Superior and Huron, St. Marys and Detroit rivers. For up bound distances see reverse courses.

Miles

ALEXANDRIA BAY, N. Y., Docks.....1192

Miles

CAPE VINCENT, N. Y., Breakwater Lights 1165

CHARLOTTE, N. Y., Genesee Lights . . . 1097

OGDENSBURG, N. Y., Ogdensburg Light 1225

OSWEGO, N. Y., Oswego Light 1147

PORT DALHOUSIE, ONT., Front Range Light 1003

PORT WELLER, ONT 1003

TORONTO, ONT., Docks 1034

TWO HARBORS, MINN.

Breakwater Light

TO POINTS ON LAKE SUPERIOR

	Miles
ASHLAND, WIS., Wharf Front	72
DULUTH, MINN., Piers	25
FORT WILLIAM, ONT., Black Gas Buoy	169
GRAND MARAIS, MICH. via down bound course. For up bound distance see reverse course.	294
HOUGHTON & HANCOCK, MICH	155
JACKFISH, ONT.	252
MARQUETTE, MICH., Breakwater Light via down bound course. For up bound distance see reverse course.	264
MICHIPICOTEN, ONT.	324

Miles

MUNISING, MICH. 287
via down bound course. For up bound distance see reverse course.

N. PORTAGE ENTRY, Pier Light.....145

ONTONAGON, MICH., Pierhead Light..114

PENINSULA HARBOR, ONT.....273

PORTAGE ENTRY, Portage River Pierhead Light 170

PORT ARTHUR, ONT., Red Gas Buoy..170

ROCK OF AGES LIGHT.....123

SUPERIOR, WIS., Entry..... 27

WHITEFISH POINT 332
via down bound course. For up bound distance see reverse course.

TO POINTS ON ST. MARYS RIVER

Miles

SOO LOCKS, American.....373
via down bound course through Lake Superior. For up bound distance see reverse course.

TO PRINCIPAL POINTS ON LAKE MICHIGAN

Via down bound courses through Lake Superior and St. Marys River. For up bound distances see reverse courses.

Miles

CHICAGO, ILL., Pierhead Range Light..788

Via northabout course through Lake Michigan 809

ESCANABA, MICH., West Light.....593
via northabout course and St. Martin Island Passage.

GARY, IND. 800

Via northabout course through Lake Michigan 821

GLADSTONE, MICH. 600
via northabout course and St. Martin Island Passage.

GREEN BAY, WIS., River Mouth.....661
via northabout course and Rock Island Passage.

MILWAUKEE, WIS., Pierhead Range Light 723

Via northabout course through Lake Michigan 740

OLD MACKINAC POINT.....464

Miles

PORTE DES MORTS PASSAGE, Pilot Island Light 588
via northabout course through Lake Michigan.

ROCK ISLAND PASSAGE, Red Gas Buoy No. 2.....570
via northabout course through Lake Michigan.

SHEBOYGAN, WIS., Breakwater Light..676
Via northabout course through Lake Michigan 690

SOUTH CHICAGO, ILL., Pierhead Light.797
Via northabout course through Lake Michigan 817

TO PRINCIPAL POINTS ON LAKE HURON

Via down bound courses through Lake Superior and St. Marys River. For up bound distances see reverse courses.

Miles

DEPOT HARBOR, ONT.....617

DETOUR 422

Miles

FORT GRATIOT LIGHT.....643
via down bound course through Lake Huron. For up bound distance see reverse course.

HARBOR BEACH, MICH., North Main Light.....585
via down bound course through Lake Huron. For up bound distance see reverse course.

OLD MACKINAC POINT.....464

OWEN SOUND, ONT.....613

PARRY SOUND, ONT.....621

ROGERS CITY, MICH.....453

TO PRINCIPAL POINTS ON ST. CLAIR & DETROIT RIVERS

Via down bound courses through Lakes Superior and Huron and St. Marys River. For up bound distances see reverse courses.

Miles

AMHERSTBURG, ONT. 725

BAR POINT WEST CHANNEL GAS BUOY No. 1.....734

Miles

DETROIT, MICH., Foot Woodward Ave..707

MARINE CITY, MICH.....665

PORT HURON, MICH. (Black River) & SARNIA, ONT. 646

WYANDOTTE, MICH. 717

TO PRINCIPAL POINTS ON LAKE ERIE

Via down bound courses through Lakes Superior and Huron, St. Marys and Detroit rivers. For up bound distances see reverse courses.

Miles

ASHTABULA, OHIO, Outer Entrance...858

BAR POINT WEST CHANNEL GAS BUOY No. 1..... 734

BUFFALO, N. Y., Buffalo Light.....968

CLEVELAND, OHIO, E. Pier Light.....815

CONNEAUT, OHIO, Outer Entrance.....872

ERIE, PA., Presque Isle Pierhead Light...899

	Miles
FAIRPORT, OHIO, Outer Entrance	834
HURON, OHIO, Huron Light	786
LONG POINT	905
LORAIN, OHIO, West Pier Light	798
PORT COLBORNE, ONT	951
SANDUSKY, OHIO, E. End Dock Channel	779
TOLEDO, OHIO, Manhattan Front Range Light	760

TO PRINCIPAL POINTS ON LAKE ONTARIO

Via down bound courses through Lakes Superior and Huron, St. Marys and Detroit rivers. For up bound distances see reverse courses.

	Miles
ALEXANDRIA BAY, N. Y., Docks	1168
CAPE VINCENT, N. Y., Breakwater Lights	1141

Miles

CHARLOTTE, N. Y., Genesee Lights....1073

OGDENSBURG, N. Y., Ogdensburg Light 1201

OSWEGO, N. Y., Oswego Light.....1123

PORT DALHOUSIE, ONT., Front Range Light 979

PORT WELLER, ONT.....979

TORONTO, ONT., Docks.....1010

WHITEFISH POINT

TO POINTS ON LAKE SUPERIOR

Miles

ASHLAND, WIS., Wharf Front.....307
via up bound course. For down bound distance see reverse course.

DULUTH, MINN., Piers.....352
via up bound course. For down bound distance see reverse course.

FORT WILLIAM, ONT., Black Gas Buoy.232
via up bound course. For down bound distance see reverse course.

GRAND MARAIS, MICH..... 51

HOUGHTON & HANCOCK, MICH.....180

JACKFISH, ONT. 167
via up bound course. For down bound distance see reverse course.

MARQUETTE, MICH., Breakwater Light.117

MICHIPICOTEN, ONT. 85

Miles

MUNISING, MICH. 89

N. PORTAGE ENTRY, Pier Light.....191

ONTONAGON, MICH., Pierhead Light...232
via up bound course. For down bound distance see reverse course.

PASSAGE ISLAND LIGHT.....190
via up bound course. For down bound distance see reverse course.

PENINSULA HARBOR, ONT.....155

PORTAGE ENTRY, Portage River Pierhead Light 165

PORT ARTHUR, ONT., Red Gas Buoy..233
via up bound course. For down bound distance see reverse course.

SUPERIOR, WIS., Entry.....350
via up bound course. For down bound distance see reverse course.

TWO HARBORS, MINN., Breakwater Light 328
via up bound course. For down bound distance see reverse course.

TO POINTS ON ST. MARYS RIVER

Miles

SOO LOCKS, American..... 41

TO PRINCIPAL POINTS ON LAKE MICHIGAN

Via down bound course through St. Marys River. For up bound distances see reverse courses.

Miles

CHICAGO, ILL., Pierhead Range Light..456

Via northabout course through Lake Michigan . 477

ESCANABA, MICH., West Light.....261
via northabout course and St. Martin Island Passage.

GARY, IND. 468

Via northabout course through Lake Michigan 489

GLADSTONE, MICH. 268
via northabout course and St. Martin Island Passage.

Miles

GREEN BAY, WIS., River Mouth.....329
via northabout course and Rock Island Passage.

MILWAUKEE, WIS., Pierhead Range Light 391

Via northabout course through Lake Michigan 408

OLD MACKINAC POINT.....132

PORTE DES MORTS PASSAGE, Pilot Island Light 256
via northabout course through Lake Michigan.

ROCK ISLAND PASSAGE, Red Gas Buoy No. 2..... 238
via northabout course through Lake Michigan.

SHEBOYGAN, WIS., Breakwater Light...344

Via northabout course through Lake Michigan 358

SOUTH CHICAGO, ILL., Pierhead Light.465

Via northabout course through Lake Michigan 485

TO PRINCIPAL POINTS ON LAKE HURON

Via down bound course through St. Marys River. For up bound distances see reverse courses.

	Miles
DEPOT HARBOR, ONT	285
DETOUR	90
FORT GRATIOT LIGHT via down bound course through Lake Huron. For up bound distance see reverse course.	311
HARBOR BEACH, MICH., North Main Light via down bound course through Lake Huron. For up bound distance see reverse course.	253
OLD MACKINAC POINT	132
OWEN SOUND, ONT	281
PARRY SOUND, ONT	289
ROGERS CITY, MICH	121

TO PRINCIPAL POINTS ON ST. CLAIR & DETROIT RIVERS

Via down bound courses through St. Marys River and Lake Huron. For up bound distances see reverse courses.

	Miles
AMHERSTBURG, ONT.	393
BAR POINT WEST CHANNEL GAS BUOY No. 1	402
DETROIT, MICH., Foot Woodward Ave.	375
MARINE CITY, MICH	333
PORT HURON, MICH. (Black River) & SARNIA, ONT.	314
WYANDOTTE, MICH.	385

TO PRINCIPAL POINTS ON LAKE ERIE

Via down bound courses through Lake Huron, St. Marys and Detroit rivers. For up bound distances see reverse courses.

	Miles
ASHTABULA, OHIO	526

Miles

BAR POINT WEST CHANNEL GAS BUOY No. 1.....402

BUFFALO, N. Y., Buffalo Light.....636

CLEVELAND, OHIO, E. Pier Light.....483

CONNEAUT, OHIO, Outer Entrance....540

ERIE, PA., Presque Isle Pierhead Light...567

FAIRPORT, OHIO, Outer Entrance.....502

HURON, OHIO, Huron Light.....454

LONG POINT 573

LORAIN, OHIO, West Pier Light.....466

PORT COLBORNE, ONT.....619

SANDUSKY, OHIO, E. End Dock Channel 447

TOLEDO, OHIO, Manhattan Front Range Light 428

TO PRINCIPAL POINTS ON LAKE ONTARIO

Via down bound courses through St. Marys and Detroit rivers and Lake Huron. For up bound distances see reverse courses.

	Miles
ALEXANDRIA BAY, N. Y., Docks	836
CAPE VINCENT, N. Y., Breakwater Lights	809
CHARLOTTE, N. Y., Genesee Lights	741
OGDENSBURG, N. Y., Ogdensburg Light	869
OSWEGO, N. Y., Oswego Light	791
PORT DALHOUSIE, ONT., Front Range Light	647
PORT WELLER, ONT	647
TORONTO, ONT., Docks	678

SAULT STE. MARIE, MICH.

Locks

TO PRINCIPAL POINTS ON LAKE SUPERIOR

Miles

ASHLAND, WIS., Wharf Front.....348
via up bound course through Lake Superior. For down bound distance see reverse course.

DULUTH, MINN., Piers.....393
via up bound course through Lake Superior. For down bound distance see reverse course.

FORT WILLIAM, ONT., Black Gas Buoy.273
via up bound course through Lake Superior. For down bound distance see reverse course.

HOUGHTON & HANCOCK. MICH.....221

JACKFISH, ONT. 208
via up bound course through Lake Superior. For down bound distance see reverse course.

Miles

MARQUETTE, MICH., Breakwater Light.158

PORT ARTHUR, ONT., Red Gas Buoy..274
via up bound course through Lake Superior. For down bound distance see reverse course.

SUPERIOR, WIS., Entry.....391
via up bound course through Lake Superior. For down bound distance see reverse course.

TWO HARBORS, MINN., Breakwater Light 369
via up bound course through Lake Superior. For down bound distance see reverse course.

WHITEFISH POINT 41

TO PRINCIPAL POINTS ON LAKE MICHIGAN

Via down bound course through St. Marys River. For up bound distances see reverse courses.

Miles

CHICAGO, ILL., Pierhead Range Light..415

Via northabout course through Lake Michigan 436

Miles

ESCANABA, MICH., West Light.....220
via northabout course and St. Martin Island Passage.

GARY, IND. 427
Via northabout course through Lake Michigan 448

GLADSTONE, MICH. 227
via northabout course and St. Martin Island Passage.

GREEN BAY, WIS., River Mouth.....288
via northabout course and Rock Island Passage.

MILWAUKEE, WIS., Pierhead Range Light 349
Via northabout course through Lake Michigan 366

OLD MACKINAC POINT..... 91

PORTE DES MORTS PASSAGE, Pilot Island Light 215
via northabout course through Lake Michigan.

ROCK ISLAND PASSAGE, Red Gas Buoy No. 2.....197
via northabout course through Lake Michigan.

SHEBOYGAN, WIS., Breakwater Light..303
Via northabout course through Lake Michigan 317

Miles

SOUTH CHICAGO, ILL., Pierhead Light. 423

Via northabout course through Lake Michigan 443

TO PRINCIPAL POINTS ON LAKE HURON

Via down bound course through St. Marys River. For up bound distances see reverse courses.

Miles

DEPOT HARBOR, ONT. 244

DETOUR 49

FORT GRATIOT LIGHT 270
via down bound course through Lake Huron. For up bound distance see reverse course.

HARBOR BEACH, MICH., North Main Light 212
via down bound course through Lake Huron. For up bound distance see reverse course.

OLD MACKINAC POINT 91

OWEN SOUND, ONT. 240

	Miles
PARRY SOUND, ONT	248
ROGERS CITY, MICH	80

TO PRINCIPAL POINTS ON ST. CLAIR & DETROIT RIVERS

Via down bound courses through St. Marys River and Lake Huron. For up bound distances see reverse courses.

	Miles
AMHERSTBURG, ONT.	352
BAR POINT WEST CHANNEL GAS BUOY No. 1	361
DETROIT, MICH., Foot Woodward Ave.	334
MARINE CITY, MICH.	292
PORT HURON, MICH. (Black River) & SARNIA, ONT.	273
WYANDOTTE, MICH.	344

TO PRINCIPAL POINTS ON LAKE ERIE

Via down bound courses through Lake Huron, St. Marys and Detroit rivers. For up bound distances see reverse courses.

	Miles
ASHTABULA, OHIO, Outer Entrance	486
BAR POINT WEST CHANNEL GAS BUOY No. 1	361
BUFFALO, N. Y., Buffalo Light	596
CLEVELAND, OHIO, E. Pier Light	443
CONNEAUT, OHIO, Outer Entrance	499
ERIE, PA., Presque Isle Pierhead Light	527
FAIRPORT, OHIO, Outer Entrance	461
HURON, OHIO, Huron Light	413
LONG POINT	532
LORAIN, OHIO, West Pier Light	426
PORT COLBORNE, ONT	579
SANDUSKY, OHIO, E. End Dock Channel	406
TOLEDO, OHIO, Manhattan Front Range Light	387

TO PRINCIPAL POINTS ON LAKE ONTARIO

Via down bound courses through Lake Huron, St. Marys and Detroit rivers. For up bound distances see reverse courses.

	Miles
ALEXANDRIA BAY, N. Y., Docks	796
CAPE VINCENT, N. Y., Breakwater Lights	769
CHARLOTTE, N. Y., Genesee Lights	701
OGDENSBURG, N. Y., Ogdensburg Light	829
OSWEGO, N. Y., Oswego Light	751
PORT DALHOUSIE, ONT., Front Range Light	607
PORT WELLER, ONT	607
TORONTO, ONT., Docks	638

CHARLEVOIX, MICH.
Pierhead Light

TO POINTS ON LAKE MICHIGAN

	Miles
CHICAGO, ILL., Pierhead Range Light	277
ESCANABA, MICH., West Light	100
FRANKFORT, MICH., Pierhead Range Light	75
GARY, IND.	289
GLADSTONE, MICH.	107
GRAND HAVEN, MICH., Front Range Light	191
GREEN BAY, WIS., River Mouth	164
HOLLAND, MICH., Front Range Light	210
INDIANA HARBOR, IND	289

Miles

KENOSHA, WIS., Breakwater Light.....235

LUDINGTON, MICH., S. Breakwater Light 126

MANISTEE, MICH., Pierhead Light.....103

MANISTIQUE, MICH., Breakwater Light 65

MANITOWOC, WIS., Pierhead Light....148

MENOMINEE & MARINETTE, Pierhead Light 121

MICHIGAN CITY, IND., W. Pierhead Light 279

MILWAUKEE, WIS., Pierhead Range Light 211

MUSKEGON, MICH., Pierhead Front Range Light 178

OLD MACKINAC POINT..... 56

PETOSKEY, MICH., Petoskey Light..... 18

PORTE DES MORTS PASSAGE, Pilot Island Light 84

RACINE, WIS., Breakwater Light.....225

ROCK ISLAND PASSAGE, Red Gas Buoy No. 2..... 75

Miles

SHEBOYGAN, WIS., Breakwater Light..165

SOUTH CHICAGO, ILL., Pierhead Light.286

SOUTH HAVEN, MICH., Pierhead Light.234

STURGEON BAY CANAL, Pierhead Light 111

ST. JOSEPH, MICH., Pierhead Light....252

TRAVERSE CITY, MICH., Docks..... 46

WAUKEGAN, ILL., Harbor Light.....249

CHICAGO, ILL.

Pierhead Range Light

TO POINTS ON LAKE MICHIGAN

	Miles
CHARLEVOIX, MICH., Pierhead Light	277
ESCANABA, MICH., West Light	273
FRANKFORT, MICH., Pierhead Range Light	204
GARY, IND.	26
GLADSTONE, MICH.	280
GRAND HAVEN, MICH., Front Range Light	108
GREEN BAY, WIS., River Mouth	255
HOLLAND, MICH., Front Range Light	95
INDIANA HARBOR, IND	20

Miles

KENOSHA, WIS., Breakwater Light..... 54

LUDINGTON, MICH., S. Breakwater Light 156

MANISTEE, MICH., Pierhead Light.....179

MANISTIQUE, MICH., Breakwater Light.290

MANITOWOC, WIS., Pierhead Light....159

MENOMINEE & MARINETTE, Pierhead Light 229

MICHIGAN CITY, IND., W. Pierhead Light 38

MILWAUKEE, WIS., Pierhead Range Light 85

MUSKEGON, MICH., Pierhead Front Range Light 114

OLD MACKINAC POINT.....324

PETOSKEY, MICH., Petoskey Light.....292

PORTE DES MORTS PASSAGE, Pilot Island Light 239

RACINE, WIS., Breakwater Light..... 64

ROCK ISLAND PASSAGE, Red Gas Buoy No. 2.....251

Miles

SHEBOYGAN, WIS., Breakwater Light..132

SOUTH CHICAGO, ILL., Pierhead Light. 15

SOUTH HAVEN, MICH., Pierhead Light. 77

STURGEON BAY CANAL, Pierhead Light 203

ST. JOSEPH, MICH., Pierhead Light.... 60

TRAVERSE CITY, MICH., Docks.....294

WAUKEGAN, ILL., Harbor light..... 38

TO PRINCIPAL POINTS ON LAKE SUPERIOR

Via up bound course through St. Marys River. For down bound distances see reverse courses.

Miles

ASHLAND, WIS., Wharf Front.....765
via up bound course through Lake Superior. For down bound distance see reverse course.

Miles

DULUTH, MINN., Piers.....810
via up bound course through Lake Superior. For down bound distance see reverse course.

FORT WILLIAM, ONT., Black Gas Buoy.690
via up bound course through Lake Superior. For down bound distance see reverse course.

HOUGHTON & HANCOCK, MICH.....638

JACKFISH, ONT. 625
via up bound course through Lake Superior. For down bound distance see reverse course.

MARQUETTE, MICH., Breakwater Light.575

PORT ARTHUR, ONT., Red Gas Buoy..691
via up bound course through Lake Superior. For down bound distance see reserve course.

SUPERIOR, WIS., Entry.....808
via up bound course through Lake Superior. For down bound distance see reverse course.

TWO HARBORS, MINN., Breakwater Light 786
via up bound course through Lake Superior. For down bound distance see reverse course.

WHITEFISH POINT 458

TO POINTS ON ST. MARYS RIVER

Miles

SOO LOCKS, American.....417
via up bound course through St. Marys River. For down bound distance see reverse course.

TO PRINCIPAL POINTS ON LAKE HURON

Miles

DEPOT HARBOR, ONT.....555

DETOUR 366

FORT GRATIOT LIGHT.....571
via down bound course through Lake Huron. For up bound distance see reverse course.

Miles

HARBOR BEACH, MICH., North Main Light 513
via down bound course through Lake Huron. For up bound distance see reverse course.

OLD MACKINAC POINT 324

OWEN SOUND, ONT 551

PARRY SOUND, ONT 559

ROGERS CITY, MICH 378

TO PRINCIPAL POINTS ON ST. CLAIR & DETROIT RIVERS

Via down bound course through Lake Huron. For up bound distances see reverse courses.

Miles

AMHERSTBURG, ONT. 653

BAR POINT WEST CHANNEL GAS BUOY No. 1 662

DETROIT, MICH., Foot Woodward Ave.. 635

MARINE CITY, MICH 593

	Miles
PORT HURON, MICH. (Black River) & SARNIA, ONT.	574
WYANDOTTE, MICH.	645

TO PRINCIPAL POINTS ON LAKE ERIE

Via down bound courses through Lake Huron and Detroit River. For up bound distances see reverse courses.

	Miles
ASHTABULA, OHIO, Outer Entrance	787
BAR POINT WEST CHANNEL GAS BUOY No. 1	662
BUFFALO, N. Y., Buffalo Light	897
CLEVELAND, OHIO, E. Pier Light	744
CONNEAUT, OHIO, Outer Entrance	800
ERIE, PA., Presque Isle Pierhead Light	828
FAIRPORT, OHIO, Outer Entrance	762
HURON, OHIO, Huron Light	714

	Miles
LONG POINT	833
LORAIN, OHIO, West Pier Light	727
PORT COLBORNE, ONT	880
SANDUSKY, OHIO, E. End Dock Channel	707
TOLEDO, OHIO, Manhattan Front Range Light	687

TO PRINCIPAL POINTS ON LAKE ONTARIO

Via down bound courses through Lake Huron and Detroit River. For up bound distances see reverse courses.

	Miles
ALEXANDRIA BAY, N. Y., Docks	1097
CAPE VINCENT, N. Y., Breakwater Lights	1070
CHARLOTTE, N. Y., Genesee Lights	1002
OGDENSBURG, N. Y., Ogdensburg Light	1130

Miles

OSWEGO, N. Y., Oswego Light.....1052

PORT DALHOUSIE, ONT., Front Range Light 908

PORT WELLER, ONT.....908

TORONTO, ONT., Docks.....939

ESCANABA, MICH.

West Light

Old Mackinac Point and points north and east are via St. Martin Island Passage and northabout course through Lake Michigan.

TO POINTS ON LAKE MICHIGAN

	Miles
CHARLEVOIX, MICH., Pierhead Light	100
CHICAGO, ILL., Pierhead Range Light	273
FRANKFORT, MICH., Pierhead Range Light	91
GARY, IND.	288
GLADSTONE, MICH.	8
GRAND HAVEN, MICH., Front Range Light	194
GREEN BAY, WIS., River Mouth	99
HOLLAND, MICH., Front Range Light	213

Miles

INDIANA HARBOR, IND.....287

KENOSHA, WIS., Breakwater Light.....228

LUDINGTON, MICH., S. Breakwater Light 130

MANISTEE, MICH., Pierhead Light.....112

MANISTIQUE, MICH., Breakwater Light 66

MANITOWOC, WIS., Pierhead Light.....127

MENOMINEE & MARINETTE, Pierhead Light 53

MICHIGAN CITY, IND., W. Pierhead Light 280

MILWAUKEE, WIS., Pierhead Range Light 201

MUSKEGON, MICH., Pierhead Front Range Light 181

OLD MACKINAC POINT.....129
via St. Martin Island Passage.

PETOSKEY, MICH., Petoskey Light.....115

PORTE DES MORTS PASSAGE, Pilot Island Light 33

Miles

RACINE, WIS., Breakwater Light.....217

ROCK ISLAND PASSAGE, Red Gas Buoy No. 2..... 29

SAINT MARTIN ISLAND PASSAGE... 26

SHEBOYGAN, WIS., Breakwater Light..149

SOUTH CHICAGO, ILL., Pierhead Light.283

SOUTH HAVEN, MICH., Pierhead Light.237

STURGEON BAY CANAL, Pierhead Light 74

ST. JOSEPH, MICH., Pierhead Light...255

TRAVERSE CITY, MICH., Docks.....123

WAUKEGAN, ILL., Harbor Light.....243

TO PRINCIPAL POINTS ON LAKE SUPERIOR

Via up bound course through St. Marys River. For down bound distances see reverse courses.

Miles

ASHLAND, WIS., Wharf Front.....570
via up bound course through Lake Superior. For down bound distance see reverse course.

DULUTH, MINN., Piers.....615
via up bound course through Lake Superior. For down bound distance see reverse course.

FORT WILLIAM, ONT., Black Gas Buoy.495
via up bound course through Lake Superior. For down bound distance see reverse course.

HOUGHTON & HANCOCK, MICH.....443

JACKFISH, ONT. 430
via up bound course through Lake Superior. For down bound distance see reverse course.

MARQUETTE, MICH., Breakwater Light.380

PORT ARTHUR, ONT., Red Gas Buoy..496
via up bound course through Lake Superior. For down bound distance see reverse course.

Miles

SUPERIOR, WIS., Entry.....613
via up bound course through Lake Superior. For down bound distance see reverse course.

TWO HARBORS, MINN., Breakwater Light 591
via up bound course through Lake Superior. For down bound distance see reverse course.

WHITEFISH POINT 263

TO POINTS ON ST. MARYS RIVER

Miles

SOO LOCKS, American.....222
via up bound course through St. Marys River. For down bound distance see reverse course.

TO PRINCIPAL POINTS ON LAKE HURON

	Miles
DEPOT HARBOR, ONT	360
DETOUR	171
FORT GRATIOT LIGHT via down bound course through Lake Huron. For up bound distance see reverse course.	376
HARBOR BEACH, MICH., North Main Light via down bound course through Lake Huron. For up bound distance see reverse course.	318
OLD MACKINAC POINT	129
OWEN SOUND, ONT	356
PARRY SOUND, ONT	364
ROGERS CITY, MICH	183

TO PRINCIPAL POINTS ON ST. CLAIR & DETROIT RIVERS

Via down bound course through Lake Huron. For up bound distances see reverse courses.

	Miles
AMHERSTBURG, ONT.	458
BAR POINT WEST CHANNEL GAS BUOY No. 1	467
DETROIT, MICH., Foot Woodward Ave.	440
MARINE CITY, MICH	398
PORT HURON, MICH. (Black River) & SARNIA, ONT.	379
WYANDOTTE, MICH.	450

TO PRINCIPAL POINTS ON LAKE ERIE

Via down bound courses through Lake Huron and Detroit River. For up bound distances see reverse courses.

	Miles
ASHTABULA, OHIO, Outer Entrance	592
BAR POINT WEST CHANNEL GAS BUOY No. 1	467
BUFFALO, N. Y., Buffalo Light	702
CLEVELAND, OHIO, E. Pier Light	549
CONNEAUT, OHIO, Outer Entrance	605
ERIE, PA., Presque Isle Pierhead Light	633
FAIRPORT, OHIO, Outer Entrance	567
HURON, OHIO, Huron Light	519
LONG POINT	638
LORAIN, OHIO, West Pier Light	532
PORT COLBORNE, ONT	685
SANDUSKY, OHIO, E. End Dock Channel	512
TOLEDO, OHIO, Manhattan Front Range Light	492

TO PRINCIPAL POINTS ON LAKE ONTARIO

Via down bound courses through Lake Huron and Detroit River. For up bound distances see reverse courses.

	Miles
ALEXANDRIA BAY, N. Y., Docks	902
CAPE VINCENT, N. Y., Breakwater Lights	875
CHARLOTTE, N. Y., Genesee Lights	807
OGDENSBURG, N. Y., Ogdensburg Light	935
OSWEGO, N. Y., Oswego Light	857
PORT DALHOUSIE, ONT., Front Range Light	713
PORT WELLER, ONT	713
TORONTO, ONT., Docks	744

FRANKFORT, MICH.
Pierhead Range Light

TO POINTS ON LAKE MICHIGAN

	Miles
CHARLEVOIX, MICH., Pierhead Light..	75
CHICAGO, ILL., Pierhead Range Light...	204
ESCANABA, MICH., West Light.....	91
GARY, IND.	216
GLADSTONE, MICH.	98
GRAND HAVEN, MICH., Front Range Light	117
GREEN BAY, WIS., River Mouth.....	105
HOLLAND, MICH., Front Range Light..	137
INDIANA HARBOR, IND.....	216
KENOSHA, WIS., Breakwater Light.....	162

Miles

LUDINGTON, MICH., S. Breakwater Light 53

MANISTEE, MICH., Pierhead Light..... 29

MANISTIQUE, MICH., Breakwater Light 92

MANITOWOC, WIS., Pierhead Light.... 79

MENOMINEE & MARINETTE, Pierhead Light 79

MICHIGAN CITY, IND., W. Pierhead Light 205

MILWAUKEE, WIS., Pierhead Range Light 140

MUSKEGON, MICH., Pierhead Front Range Light 104

OLD MACKINAC POINT.....125

PETOSKEY, MICH., Petoskey Light..... 91

PORTE DES MORTS PASSAGE, Pilot Island Light 56

RACINE, WIS., Breakwater Light.....153

ROCK ISLAND PASSAGE, Red Gas Buoy No. 2..... 61

Miles

SHEBOYGAN, WIS., Breakwater Light.. 95

SOUTH CHICAGO, ILL., Pierhead Light.213

SOUTH HAVEN, MICH., Pierhead Light.161

STURGEON BAY CANAL, Pierhead Light 54

ST. JOSEPH, MICH., Pierhead Light...179

TRAVERSE CITY, MICH., Docks..... 93

WAUKEGAN, ILL., Harbor Light.....177

GARY, IND.

TO POINTS ON LAKE MICHIGAN

	Miles
CHARLEVOIX, MICH., Pierhead Light	289
CHICAGO, ILL., Pierhead Range Light	26
ESCANABA, MICH., West Light	288
FRANKFORT, MICH., Pierhead Range Light	216
GLADSTONE, MICH.	295
GRAND HAVEN, MICH., Front Range Light	114
GREEN BAY, WIS., River Mouth	270
HOLLAND, MICH., Front Range Light	98
INDIANA HARBOR, IND	15
KENOSHA, WIS., Breakwater Light	73

Miles

LUDINGTON, MICH., S. Breakwater Light 166

MANISTEE, MICH., Pierhead Light 191

MANISTIQUE, MICH., Breakwater Light. 302

MANITOWOC, WIS., Pierhead Light 175

MENOMINEE & MARINETTE, Pierhead Light 244

MICHIGAN CITY, IND., W. Pierhead Light 24

MILWAUKEE, WIS., Pierhead Range Light 103

MUSKEGON, MICH., Pierhead Front Range Light 121

OLD MACKINAC POINT 336

PETOSKEY, MICH., Petoskey Light 304

PORTE DES MORTS PASSAGE, Pilot Island Light 254

RACINE, WIS., Breakwater Light 83

ROCK ISLAND PASSAGE, Red Gas Buoy No. 2 265

Miles

SHEBOYGAN, WIS., Breakwater Light..149

SOUTH CHICAGO, ILL., Pierhead Light. 17

SOUTH HAVEN, MICH., Pierhead Light. 76

STURGEON BAY CANAL, Pierhead Light 219

ST. JOSEPH, MICH., Pierhead Light... 54

TRAVERSE CITY, MICH., Docks.....306

WAUKEGAN, ILL., Harbor Light..... 58

TO PRINCIPAL POINTS ON LAKE SUPERIOR

Via up bound course through St. Marys River. For down bound distances see reverse courses.

Miles

ASHLAND, WIS., Wharf Front.....777
via up bound course through Lake Superior. For down bound distance see reverse course.

Miles

DULUTH, MINN., Piers.....822
via up bound course through Lake Superior. For down bound distance see reverse course.

FORT WILLIAM, ONT., Black Gas Buoy.702
via up bound course through Lake Superior. For down bound distance see reverse course.

HOUGHTON & HANCOCK, MICH.....650

JACKFISH, ONT. 637
via up bound course through Lake Superior. For down bound distance see reverse course.

MARQUETTE, MICH., Breakwater Light.587

PORT ARTHUR, ONT., Red Gas Buoy..703
via up bound course through Lake Superior. For down bound distance see reverse course.

SUPERIOR, WIS., Entry.....820
via up bound course through Lake Superior. For down bound distance see reverse course.

TWO HARBORS, MINN., Breakwater Light 798
via up bound course through Lake Superior. For down bound distance see reverse course.

WHITEFISH POINT 470

TO POINTS ON ST. MARYS RIVER

Miles

SOO LOCKS, American.....429
via up bound course through St. Marys River. For down bound distance see reverse course.

TO PRINCIPAL POINTS ON LAKE HURON

Miles

DEPOT HARBOR, ONT.....567

DETOUR 378

FORT GRATIOT LIGHT.....583
via down bound course through Lake Huron. For up bound distance see reverse course.

HARBOR BEACH, MICH., North Main Light 525
via down bound course through Lake Huron. For up bound distance see reverse course.

OLD MACKINAC POINT.....336

	Miles
OWEN SOUND, ONT.	563
PARRY SOUND, ONT.	571
ROGERS CITY, MICH.	390

TO PRINCIPAL POINTS ON ST. CLAIR & DETROIT RIVERS

Via down bound course through Lake Huron. For up bound distances see reverse courses.

	Miles
AMHERSTBURG, ONT.	665
BAR POINT WEST CHANNEL GAS BUOY No. 1	674
DETROIT, MICH., Foot Woodward Ave.	647
MARINE CITY, MICH.	605
PORT HURON, MICH. (Black River) & SARNIA, ONT.	586
WYANDOTTE, MICH.	657

TO PRINCIPAL POINTS ON LAKE ERIE

Via down bound courses through Lake Huron and Detroit River. For up bound distances see reverse courses.

	Miles
ASHTABULA, OHIO, Outer Entrance	799
BAR POINT WEST CHANNEL GAS BUOY No. 1	674
BUFFALO, N. Y., Buffalo Light	909
CLEVELAND, OHIO, E. Pier Light	756
CONNEAUT, OHIO, Outer Entrance	812
ERIE, PA., Presque Isle Pierhead Light	840
FAIRPORT, OHIO, Outer Entrance	774
HURON, OHIO, Huron Light	726
LONG POINT	845
LORAIN, OHIO, West Pier Light	739
PORT COLBORNE, ONT	892
SANDUSKY, OHIO, E. End Dock Channel	719
TOLEDO, OHIO, Manhattan Front Range Light	699

TO PRINCIPAL POINTS ON LAKE ONTARIO

Via down bound courses through Lake Huron and Detroit River. For up bound distances see reverse courses.

	Miles
ALEXANDRIA BAY, N. Y., Docks	1109
CAPE VINCENT, N. Y., Breakwater Lights	1082
CHARLOTTE, N. Y., Genesee Lights	1014
OGDENSBURG, N. Y., Ogdensburg Light	1142
OSWEGO, N. Y., Oswego Light	1064
PORT DALHOUSIE, ONT., Front Range Light	920
PORT WELLER, ONT	920
TORONTO, ONT., Docks	951

GLADSTONE, MICH.

Old Mackinac Point and points north and east are via St. Martin Island Passage and northabout course through Lake Michigan.

TO POINTS ON LAKE MICHIGAN

	Miles
CHARLEVOIX, MICH., Pierhead Light	107
CHICAGO, ILL., Pierhead Range Light	280
ESCANABA, MICH., West Light	8
FRANKFORT, MICH., Pierhead Range Light	98
GARY, IND.	295
GRAND HAVEN, MICH., Front Range Light	201
GREEN BAY, WIS., River Mouth	106
HOLLAND, MICH., Front Range Light	220
INDIANA HARBOR, IND	294

Miles

KENOSHA, WIS., Breakwater Light.....235

LUDINGTON, MICH., S. Breakwater Light 137

MANISTEE, MICH., Pierhead Light.....119

MANISTIQUE, MICH., Breakwater Light 73

MANITOWOC, WIS., Pierhead Light....134

MENOMINEE & MARINETTE, Pierhead Light 60

MICHIGAN CITY, IND., W. Pierhead Light 287

MILWAUKEE, WIS., Pierhead Range Light 208

MUSKEGON, MICH., Pierhead Front Range Light 188

OLD MACKINAC POINT.....136
via Saint Martin Island Passage.

PETOSKEY, MICH., Petoskey Light.....122

PORTE DES MORTS PASSAGE, Pilot Island Light 40

RACINE, WIS., Breakwater Light.....224

ROCK ISLAND PASSAGE, Red Gas Buoy No. 2..... 36

Miles

SAINT MARTIN ISLAND PASSAGE... 33

SHEBOYGAN, WIS., Breakwater Light..156

SOUTH CHICAGO, ILL., Pierhead Light.290

SOUTH HAVEN, MICH., Pierhead Light.244

STURGEON BAY CANAL, Pierhead Light 81

ST. JOSEPH, MICH., Pierhead Light...262

TRAVERSE CITY, MICH., Docks.....130

WAUKEGAN, ILL., Harbor Light.....250

TO PRINCIPAL POINTS ON LAKE SUPERIOR

Via up bound course through St. Marys River. For down bound distances see reverse courses.

Miles

ASHLAND, WIS., Wharf Front.....577
via up bound course through Lake Superior. For down bound distance see reverse course.

Miles

DULUTH, MINN., Piers.....622
via up bound course through Lake Superior. For down bound distance see reverse course.

FORT WILLIAM, ONT., Black Gas Buoy.502
via up bound course through Lake Superior. For down bound distance see reverse course.

HOUGHTON & HANCOCK, MICH.....450

JACKFISH, ONT. 437
via up bound course through Lake Superior. For down bound distance see reverse course.

MARQUETTE, MICH., Breakwater Light.387

PORT ARTHUR, ONT., Red Gas Buoy..503
via up bound course through Lake Superior. For down bound distance see reverse course.

SUPERIOR, WIS., Entry.....620
via up bound course through Lake Superior. For down bound distance see reverse course.

TWO HARBORS, MINN., Breakwater Light 598
via up bound course through Lake Superior. For down bound distance see reverse course.

WHITEFISH POINT 270

TO POINTS ON ST. MARYS RIVER

Miles

SOO LOCKS, American.....229
via up bound course through St. Marys River. For down bound distance see reverse course.

TO PRINCIPAL POINTS ON LAKE HURON

Miles

DEPOT HARBOR, ONT.....367

DETOUR 178

FORT GRATIOT LIGHT.....383
via down bound course through Lake Huron. For up bound distance see reverse course.

HARBOR BEACH, MICH., North Main Light 325
via down bound course through Lake Huron. For up bound distance see reverse course.

OLD MACKINAC POINT.....136

OWEN SOUND, ONT.....363

PARRY SOUND, ONT.....371

ROGERS CITY, MICH.....190

TO PRINCIPAL POINTS ON ST. CLAIR & DETROIT RIVERS

Via down bound course through Lake Huron. For up bound distances see reverse courses.

	Miles
AMHERSTBURG, ONT.	465
BAR POINT WEST CHANNEL GAS BUOY No. 1	474
DETROIT, MICH., Foot Woodward Ave.	447
MARINE CITY., MICH	405
PORT HURON, MICH. (Black River) & SARNIA, ONT.	386
WYANDOTTE, MICH.	457

TO PRINCIPAL POINTS ON LAKE ERIE

Via down bound courses through Lake Huron and Detroit River. For up bound distances see reverse courses.

	Miles
ASHTABULA, OHIO, Outer Entrance	599

Miles

BAR POINT WEST CHANNEL GAS BUOY No. 1.....474

BUFFALO, N. Y., Buffalo Light.....709

CLEVELAND, OHIO, E. Pier Light.....556

CONNEAUT, OHIO, Outer Entrance....612

ERIE, PA., Presque Isle Pierhead Light...640

FAIRPORT, OHIO, Outer Entrance.....574

HURON, OHIO, Huron Light.....526

LONG POINT 645

LORAIN, OHIO, West Pier Light.....539

PORT COLBORNE, ONT.....692

SANDUSKY, OHIO, E. End Dock Channel 519

TOLEDO, OHIO, Manhattan Front Range Light 499

TO PRINCIPAL POINTS ON LAKE ONTARIO

Via down bound courses through Lake Huron and Detroit River. For up bound distances see reverse courses.

	Miles
ALEXANDRIA BAY, N. Y., Docks	909
CAPE VINCENT, N. Y., Breakwater Lights	882
CHARLOTTE, N. Y., Genesee Lights	814
OGDENSBURG, N. Y., Ogdensburg Light	942
OSWEGO, N. Y., Oswego Light	864
PORT DALHOUSIE, ONT., Front Range Light	720
PORT WELLER, ONT.	720
TORONTO, ONT., Docks	751

GRAND HAVEN, MICH.
Front Range Light

TO POINTS ON LAKE MICHIGAN

	Miles
CHARLEVOIX, MICH., Pierhead Light	191
CHICAGO, ILL., Pierhead Range Light	108
ESCANABA, MICH., West Light	194
FRANKFORT, MICH., Pierhead Range Light	117
GARY, IND.	114
GLADSTONE, MICH.	201
GREEN BAY, WIS., River Mouth	183
HOLLAND, MICH., Front Range Light	23
INDIANA HARBOR, IND	115
KENOSHA, WIS., Breakwater Light	85

Miles

LUDINGTON, MICH., S. Breakwater Light 68

MANISTEE, MICH., Pierhead Light..... 93

MANISTIQUE, MICH., Breakwater Light.205

MANITOWOC, WIS., Pierhead Light 102

MENOMINEE & MARINETTE, Pierhead Light 157

MICHIGAN CITY, IND., W. Pierhead Light 99

MILWAUKEE, WIS., Pierhead Range Light 83

MUSKEGON, MICH., Pierhead Front Range Light 14

OLD MACKINAC POINT.....237

PETOSKEY, MICH., Petoskey Light.....206

PORTE DES MORTS PASSAGE, Pilot Island Light 159

RACINE, WIS., Breakwater Light..... 80

ROCK ISLAND PASSAGE, Red Gas Buoy No. 2.....168

Grand Haven, Mich.—Cont.

Miles

SHEBOYGAN, WIS., Breakwater Light.. 87

SOUTH CHICAGO, ILL., Pierhead Light.114

SOUTH HAVEN, MICH., Pierhead Light. 49

STURGEON BAY CANAL, Pierhead Light 132

ST. JOSEPH, MICH., Pierhead Light... 69

TRAVERSE CITY, MICH., Docks.....208

WAUKEGAN, ILL., Harbor Light..... 93

GREEN BAY, WIS.

River Mouth

Old Mackinac Point and points north and east are via Rock Island Passage and north-about course through Lake Michigan.

TO POINTS ON LAKE MICHIGAN

	Miles
CHARLEVOIX, MICH., Pierhead Light	164
CHICAGO, ILL., Pierhead Range Light	255
ESCANABA, MICH., West Light	99
FRANKFORT, MICH., Pierhead Range Light	105
GARY, IND.	270
GLADSTONE, MICH.	106
GRAND HAVEN, MICH., Front Range Light	183

Miles

HOLLAND, MICH., Front Range Light..202

INDIANA HARBOR, IND.....268

KENOSHA, WIS., Breakwater Light.....207

LUDINGTON, MICH., S. Breakwater Light 123

MANISTEE, MICH., Pierhead Light.....111

MANISTIQUE, MICH., Breakwater Light.135

MANITOWOC, WIS., Pierhead Light....106

MENOMINEE & MARINETTE Pierhead Light 50

MICHIGAN CITY, IND., W. Pierhead Light 264

MILWAUKEE, WIS., Pierhead Range Light 179

MUSKEGON, MICH., Pierhead Front Range Light 170

OLD MACKINAC POINT.....197

PETOSKEY, MICH,. Petoskey Light.....180

PORTE DES MORTS PASSAGE, Pilot Island Light 81

Miles

RACINE, WIS., Breakwater Light.....197

ROCK ISLAND PASSAGE, Red Gas Buoy No. 2.

Via Strawberry Channel..... 92

Via Chambers Island..... 93

SHEBOYGAN, WIS., Breakwater Light..127

SOUTH CHICAGO, ILL., Pierhead Light.265

SOUTH HAVEN, MICH., Pierhead Light.225

STURGEON BAY CANAL, Pierhead Light 51

ST. JOSEPH, MICH., Pierhead Light....241

TRAVERSE CITY, MICH., Docks.....180

WAUKEGAN, ILL., Harbor Light.....222

TO PRINCIPAL POINTS ON LAKE SUPERIOR

Via up bound course through St. Marys River. For down bound distances see reverse courses.

Miles

ASHLAND, WIS., Wharf Front.....638
via up bound course through Lake Superior. For down bound distance see reverse course.

DULUTH, MINN., Piers.....683
via up bound course through Lake Superior. For down bound distance see reverse course.

FORT WILLIAM, ONT., Black Gas Buoy.563
via up bound course through Lake Superior. For down bound distance see reverse course.

HOUGHTON & HANCOCK, MICH.....511

JACKFISH, ONT. 498
via up bound course through Lake Superior. For down bound distance see reverse course.

MARQUETTE, MICH., Breakwater Light.448

PORT ARTHUR, ONT., Red Gas Buoy..564
via up bound course through Lake Superior. For down bound distance see reverse course.

Miles

SUPERIOR, WIS., Entry.....681
via up bound course through Lake Superior. For down bound distance see reverse course.

TWO HARBORS, MINN., Breakwater Light.....659
via up bound course through Lake Superior. For down bound distance see reverse course.

WHITEFISH POINT.....331

TO POINTS ON ST. MARYS RIVER

Miles

SOO LOCKS, American.....290
via up bound course through St. Marys River. For down bound distance see reverse course.

TO PRINCIPAL POINTS ON LAKE HURON

Miles

DEPOT HARBOR, ONT.....428

Miles

DETOUR 239

FORT GRATIOT LIGHT.....444
via down bound course through Lake Huron. For up bound distance see reverse course.

HARBOR BEACH, MICH., North Main Light 386
via down bound course through Lake Huron. For up bound distance see reverse course.

OLD MACKINAC POINT.....197

OWEN SOUND, ONT.....424

PARRY SOUND, ONT.....432

ROGERS CITY, MICH.....251

TO PRINCIPAL POINTS ON ST. CLAIR & DETROIT RIVERS

Via down bound course through Lake Huron. For up bound distances see reverse courses.

Miles

AMHERSTBURG, ONT. 526

Miles

BAR POINT WEST CHANNEL GAS BUOY No. 1.....535

DETROIT, MICH., Foot Woodward Ave..508

MARINE CITY, MICH.....466

PORT HURON, MICH. (Black River) & SARNIA, ONT. 447

WYANDOTTE, MICH. 518

TO PRINCIPAL POINTS ON LAKE ERIE

Via down bound courses through Lake Huron and Detroit River. For up bound distances see reverse courses.

Miles

ASHTABULA, OHIO, Outer Entrance...660

BAR POINT WEST CHANNEL GAS BUOY No. 1.....535

BUFFALO, N. Y., Buffalo Light.....770

CLEVELAND, OHIO, E. Pier Light.....617

Miles

CONNEAUT, OHIO, Outer Entrance....673

ERIE, PA., Presque Isle Pierhead Light...701

FAIRPORT, OHIO, Outer Entrance.....635

HURON, OHIO, Huron Light.....587

LONG POINT 706

LORAIN, OHIO, West Pier Light.....600

PORT COLBORNE, ONT.....753

SANDUSKY, OHIO, E. End Dock Channel 580

TOLEDO, OHIO, Manhattan Front Range Light 560

TO PRINCIPAL POINTS ON LAKE ONTARIO

Via down bound courses through Lake Huron and Detroit River. For up bound distances see reverse courses.

Miles

ALEXANDRIA BAY, N. Y., Docks.....970

Miles

CAPE VINCENT, N. Y., Breakwater Lights 943

CHARLOTTE, N. Y., Genesee Lights. 875

OGDENSBURG, N. Y., Ogdensburg Light 1003

OSWEGO, N. Y., Oswego Light. 925

PORT DALHOUSIE, ONT., Front Range Light 781

PORT WELLER, ONT. 781

TORONTO, ONT., Docks. 812

HOLLAND, MICH.

Front Range Light

TO POINTS ON LAKE MICHIGAN

	Miles
CHARLEVOIX, MICH., Pierhead Light	210
CHICAGO, ILL., Pierhead Range Light	95
ESCANABA, MICH., West Light	213
FRANKFORT, MICH., Pierhead Range Light	137
GARY, IND.	98
GLADSTONE, MICH.	220
GRAND HAVEN, MICH., Front Range Light	23
GREEN BAY, WIS., River Mouth	202
INDIANA HARBOR, IND	100

Miles

KENOSHA, WIS., Breakwater Light..... 82

LUDINGTON, MICH., S. Breakwater Light 87

MANISTEE, MICH., Pierhead Light.....112

MANISTIQUE, MICH., Breakwater Light.224

MANITOWOC, WIS., Pierhead Light....118

MENOMINEE & MARINETTE, Pierhead Light 177

MICHIGAN CITY, IND., W. Pierhead Light 82

MILWAUKEE, WIS., Pierhead Range Light 87

MUSKEGON, MICH., Pierhead Front Range Light 34

OLD MACKINAC POINT.....257

PETOSKEY, MICH., Petoskey Light.....225

PORTE DES MORTS PASSAGE, Pilot Island Light 178

RACINE, WIS., Breakwater Light..... 79

ROCK ISLAND PASSAGE, Red Gas Buoy No. 2.....188

Miles

SHEBOYGAN, WIS., Breakwater Light..102

SOUTH CHICAGO, ILL., Pierhead Light.100

SOUTH HAVEN, MICH., Pierhead Light. 28

STURGEON BAY CANAL, Pierhead Light 151

ST. JOSEPH, MICH., Pierhead Light.... 50

TRAVERSE CITY, MICH., Docks.....227

WAUKEGAN, ILL., Harbor Light..... 87

INDIANA HARBOR, IND.

TO POINTS ON LAKE MICHIGAN

	Miles
CHARLEVOIX, MICH., Pierhead Light	289
CHICAGO, ILL., Pierhead Range Light	20
ESCANABA, MICH., West Light	287
FRANKFORT, MICH., Pierhead Range Light	216
GARY, IND.	15
GLADSTONE, MICH.	294
GRAND HAVEN, MICH., Front Range Light	115
GREEN BAY, WIS., River Mouth	268
HOLLAND, MICH., Front Range Light	100
KENOSHA, WIS., Breakwater Light	68

Miles

LUDINGTON, MICH., S. Breakwater Light 167

MANISTEE, MICH., Pierhead Light 191

MANISTIQUE, MICH., Breakwater Light. 302

MANITOWOC, WIS., Pierhead Light 172

MENOMINEE & MARINETTE, Pierhead Light 242

MICHIGAN CITY, IND., W. Pierhead Light 31

MILWAUKEE, WIS., Pierhead Range Light 100

MUSKEGON, MICH., Pierhead Front Range Light 122

OLD MACKINAC POINT 336

PETOSKEY, MICH., Petoskey Light 304

PORTE DES MORTS PASSAGE, Pilot Island Light 253

RACINE, WIS., Breakwater Light 79

ROCK ISLAND PASSAGE, Red Gas Buoy No. 2 264

SHEBOYGAN, WIS., Breakwater Light . . 146

Miles

SOUTH CHICAGO, ILL., Pierhead Light. 8

SOUTH HAVEN, MICH., Pierhead Light. 80

STURGEON BAY CANAL, Pierhead Light 216

ST. JOSEPH, MICH., Pierhead Light.... 60

TRAVERSE CITY, MICH., Docks.....306

WAUKEGAN, ILL., Harbor Light..... 53

KENOSHA, WIS.
Breakwater Light

TO POINTS ON LAKE MICHIGAN

	Miles
CHARLEVOIX, MICH., Pierhead Light	235
CHICAGO, ILL., Pierhead Range Light	54
ESCANABA, MICH., West Light	228
FRANKFORT, MICH., Pierhead Range Light	162
GARY, IND.	73
GLADSTONE, MICH.	235
GRAND HAVEN, MICH., Front Range Light	85
GREEN BAY, WIS., River Mouth	207
HOLLAND, MICH., Front Range Light	82

Miles

INDIANA HARBOR, IND..... 68

LUDINGTON, MICH., S. Breakwater Light 117

MANISTEE, MICH., Pierhead Light.....138

MANISTIQUE, MICH., Breakwater Light.246

MANITOWOC, WIS., Pierhead Light....111

MENOMINEE & MARINETTE, Pierhead Light 181

MICHIGAN CITY, IND., W. Pierhead Light 76

MILWAUKEE, WIS., Pierhead Range Light 36

MUSKEGON, MICH., Pierhead Front Range Light 87

OLD MACKINAC POINT.....282

PETOSKEY, MICH., Petoskey Light.....250

PORTE DES MORTS PASSAGE, Pilot Island Light 193

RACINE, WIS., Breakwater Light..... 15

ROCK ISLAND PASSAGE, Red Gas Buoy No. 2.....205

Miles

SHEBOYGAN, WIS., Breakwater Light.. 84

SOUTH CHICAGO, ILL., Pierhead Light. 64

SOUTH HAVEN, MICH., Pierhead Light. 79

STURGEON BAY CANAL, Pierhead Light 156

ST. JOSEPH, MICH., Pierhead Light.... 75

TRAVERSE CITY, MICH., Docks.....252

WAUKEGAN, ILL., Harbor Light..... 20

LUDINGTON, MICH.
S. Breakwater Light

TO POINTS ON LAKE MICHIGAN

	Miles
CHARLEVOIX, MICH., Pierhead Light	126
CHICAGO, ILL., Pierhead Range Light	156
ESCANABA, MICH., West Light	130
FRANKFORT, MICH., Pierhead Range Light	53
GARY, IND.	166
GLADSTONE, MICH.	137
GRAND HAVEN, MICH., Front Range Light	68
GREEN BAY, WIS., River Mouth	123
HOLLAND, MICH., Front Range Light	87

Miles

INDIANA HARBOR, IND.....167

KENOSHA, WIS., Breakwater Light.....117

MANISTEE, MICH., Pierhead Light..... 28

MANISTIQUE, MICH., Breakwater Light.140

MANITOWOC, WIS., Pierhead Light.... 60

MENOMINEE & MARINETTE, Pierhead Light 97

MICHIGAN CITY, IND., W. Pierhead Light 156

MILWAUKEE, WIS., Pierhead Range Light 97

MUSKEGON, MICH., Pierhead Front Range Light 56

OLD MACKINAC POINT.....173

PETOSKEY, MICH., Petoskey Light.....141

PORTE DES MORTS PASSAGE, Pilot Island Light 96

RACINE, WIS., Breakwater Light.....108

ROCK ISLAND PASSAGE, Red Gas Buoy No. 2.....104

Miles

SHEBOYGAN, WIS., Breakwater Light.. 63

SOUTH CHICAGO, ILL., Pierhead Light.164

SOUTH HAVEN, MICH., Pierhead Light.112

STURGEON BAY CANAL, Pierhead Light 72

ST. JOSEPH, MICH., Pierhead Light....130

TRAVERSE CITY, MICH., Docks.....144

WAUKEGAN, ILL., Harbor Light.....132

MANISTEE, MICH.
Pierhead Light

TO POINTS ON LAKE MICHIGAN

	Miles
CHARLEVOIX, MICH., Pierhead Light	103
CHICAGO, ILL., Pierhead Range Light	179
ESCANABA, MICH., West Light	112
FRANKFORT, MICH., Pierhead Range Light	29
GARY, IND.	191
GLADSTONE, MICH.	119
GRAND HAVEN, MICH., Front Range Light	93
GREEN BAY, WIS., River Mouth	111
HOLLAND, MICH., Front Range Light	112

Miles

INDIANA HARBOR, IND.....191

KENOSHA, WIS., Breakwater Light.....138

LUDINGTON, MICH., S. Breakwater Light 28

MANISTIQUE, MICH., Breakwater Light.118

MANITOWOC, WIS., Pierhead Light.... 66

MENOMINEE & MARINETTE, Pierhead Light 85

MICHIGAN CITY, IND., W. Pierhead Light 180

MILWAUKEE, WIS., Pierhead Range Light 117

MUSKEGON, MICH., Pierhead Front Range Light 80

OLD MACKINAC POINT.....150

PETOSKEY, MICH., Petoskey Light.....118

PORTE DES MORTS PASSAGE, Pilot Island Light 77

RACINE, WIS., Breakwater Light.....129

ROCK ISLAND PASSAGE, Red Gas Buoy No. 2..... 84

Miles

SHEBOYGAN, WIS., Breakwater Light... 76

SOUTH CHICAGO, ILL., Pierhead Light.188

SOUTH HAVEN, MICH., Pierhead Light.136

STURGEON BAY CANAL, Pierhead Light 60

ST. JOSEPH, MICH., Pierhead Light....153

TRAVERSE CITY, MICH., Docks.....120

WAUKEGAN, ILL., Harbor Light.....153

MANISTIQUE, MICH.
Breakwater Light

TO POINTS ON LAKE MICHIGAN

	Miles
CHARLEVOIX, MICH., Pierhead Light	65
CHICAGO, ILL., Pierhead Range Light	290
ESCANABA, MICH., West Light	66
FRANKFORT, MICH., Pierhead Range Light	92
GARY, IND.	302
GLADSTONE, MICH.	73
GRAND HAVEN, MICH., Front Range Light	205
GREEN BAY, WIS., River Mouth	135
HOLLAND, MICH., Front Range Light	224

Miles

INDIANA HARBOR, IND.....302

KENOSHA, WIS., Breakwater Light.....246

LUDINGTON, MICH., S. Breakwater Light.....140

MANISTEE, MICH., Pierhead Light.....118

MANITOWOC, WIS., Pierhead Light....148

MENOMINEE & MARINETTE, Pierhead Light..... 91

MICHIGAN CITY, IND., W. Pierhead Light.....293

MILWAUKEE, WIS., Pierhead Range Light.....219

MUSKEGON, MICH., Pierhead Front Range Light.....192

OLD MACKINAC POINT..... 75

PETOSKEY, MICH., Petoskey Light..... 79

PORTE DES MORTS PASSAGE, Pilot Island Light..... 60

RACINE, WIS., Breakwater Light.....235

ROCK ISLAND PASSAGE, Red Gas Buoy No. 2..... 37

Miles

SHEBOYGAN, WIS., Breakwater Light..169

SOUTH CHICAGO, ILL., Pierhead Light.298

SOUTH HAVEN, MICH., Pierhead Light.248

STURGEON BAY CANAL, Pierhead Light 97

ST. JOSEPH, MICH., Pierhead Light....266

TRAVERSE CITY, MICH., Docks..... 94

WAUKEGAN, ILL., Harbor Light.....261

MANITOWOC, WIS.
Pierhead Light

TO POINTS ON LAKE MICHIGAN

	Miles
CHARLEVOIX, MICH., Pierhead Light	148
CHICAGO, ILL., Pierhead Range Light	159
ESCANABA, MICH., West Light	127
FRANKFORT, MICH., Pierhead Range Light	79
GARY, IND.	175
GLADSTONE, MICH.	134
GRAND HAVEN, MICH., Front Range Light	102
GREEN BAY, WIS., River Mouth	106
HOLLAND, MICH., Front Range Light	118

Miles

INDIANA HARBOR, IND.....172

KENOSHA, WIS., Breakwater Light.....111

LUDINGTON, MICH., S. Breakwater Light 60

MANISTEE, MICH., Pierhead Light..... 66

MANISTIQUE, MICH., Breakwater Light.148

MENOMINEE & MARINETTE, Pierhead Light 80

MICHIGAN CITY, IND., W. Pierhead Light 170

MILWAUKEE, WIS., Pierhead Range Light 82

MUSKEGON, MICH., Pierhead Front Range Light 90

OLD MACKINAC POINT.....194

PETOSKEY, MICH., Petoskey Light.....163

PORTE DES MORTS PASSAGE, Pilot Island Light 93

RACINE, WIS., Breakwater Light.....100

ROCK ISLAND PASSAGE, Red Gas Buoy No. 2.....105

Miles

SHEBOYGAN, WIS., Breakwater Light.. 27

SOUTH CHICAGO, ILL., Pierhead Light.169

SOUTH HAVEN, MICH., Pierhead Light.138

STURGEON BAY CANAL, Pierhead Light 55

ST. JOSEPH, MICH., Pierhead Light....152

TRAVERSE CITY, MICH., Docks.....165

WAUKEGAN, ILL., Harbor Light.....126

MENOMINEE & MARINETTE
Pierhead Light

TO POINTS ON LAKE MICHIGAN

	Miles
CHARLEVOIX, MICH., Pierhead Light	121
CHICAGO, ILL., Pierhead Range Light	229
ESCANABA, MICH., West Light	53
FRANKFORT, MICH., Pierhead Range Light	79
GARY, IND.	244
GLADSTONE, MICH.	60
GRAND HAVEN, MICH., Front Range Light	157
GREEN BAY, WIS., River Mouth	50
HOLLAND, MICH., Front Range Light	177

Miles

INDIANA HARBOR, IND.....242

KENOSHA, WIS., Breakwater Light.....181

LUDINGTON, MICH., S. Breakwater Light 97

MANISTEE, MICH., Pierhead Light..... 85

MANISTIQUE, MICH., Breakwater Light 91

MANITOWOC, WIS., Pierhead Light.... 80

MICHIGAN CITY, IND., W. Pierhead Light 238

MILWAUKEE, WIS., Pierhead Range Light 154

MUSKEGON, MICH., Pierhead Front Range Light 144

OLD MACKINAC POINT.....155

PETOSKEY, MICH., Petoskey Light.....136

PORTE DES MORTS PASSAGE, Pilot Island Light 37

RACINE, WIS., Breakwater Light.....171

ROCK ISLAND PASSAGE, Red Gas Buoy No. 2..... 48

Miles

SHEBOYGAN, WIS., Breakwater Light..102

SOUTH CHICAGO, ILL., Pierhead Light.239

SOUTH HAVEN, MICH., Pierhead Light.199

STURGEON BAY CANAL, Pierhead Light 26

ST. JOSEPH, MICH., Pierhead Light...215

TRAVERSE CITY, MICH., Docks.....140

WAUKEGAN, ILL., Harbor Light.....197

MICHIGAN CITY, IND.
W. Pierhead Light

TO POINTS ON LAKE MICHIGAN

	Miles
CHARLEVOIX, MICH., Pierhead Light	279
CHICAGO, ILL., Pierhead Range Light	38
ESCANABA, MICH., West Light	280
FRANKFORT, MICH., Pierhead Range Light	205
GARY, IND.	24
GLADSTONE, MICH.	287
GRAND HAVEN, MICH., Front Range Light	99
GREEN BAY, WIS., River Mouth	264
HOLLAND, MICH., Front Range Light	82

Miles

INDIANA HARBOR, IND..... 31

KENOSHA, WIS., Breakwater Light..... 76

LUDINGTON, MICH., S. Breakwater Light 156

MANISTEE, MICH., Pierhead Light.....180

MANISTIQUE, MICH., Breakwater Light.293

MANITOWOC, WIS., Pierhead Light....170

MENOMINEE & MARINETTE, Pierhead Light 238

MILWAUKEE, WIS., Pierhead Range Light 104

MUSKEGON, MICH., Pierhead Front Range Light 108

OLD MACKINAC POINT.....326

PETOSKEY, MICH., Petoskey Light.....294

PORTE DES MORTS PASSAGE, Pilot Island Light 246

RACINE, WIS., Breakwater Light..... 84

ROCK ISLAND PASSAGE, Red Gas Buoy No. 2.....257

Miles

SHEBOYGAN, WIS., Breakwater Light..146

SOUTH CHICAGO, ILL., Pierhead Light. 32

SOUTH HAVEN, MICH., Pierhead Light 57

STURGEON BAY CANAL, Pierhead Light 213

ST. JOSEPH, MICH., Pierhead Light.... 36

TRAVERSE CITY, MICH., Docks.....296

WAUKEGAN, ILL., Harbor Light..... 64

MILWAUKEE, WIS.
Pierhead Range Light

TO POINTS ON LAKE MICHIGAN

	Miles
CHARLEVOIX, MICH., Pierhead Light	211
CHICAGO, ILL., Pierhead Range Light	85
ESCANABA, MICH., West Light	201
FRANKFORT, MICH., Pierhead Range Light	140
GARY, IND.	103
GLADSTONE, MICH.	208
GRAND HAVEN, MICH., Front Range Light	83
GREEN BAY, WIS., River Mouth	179

Miles

HOLLAND, MICH., Front Range Light.. 87

INDIANA HARBOR, IND.....100

KENOSHA, WIS., Breakwater Light..... 36

LUDINGTON, MICH., S. Breakwater Light 97

MANISTEE, MICH., Pierhead Light.....117

MANISTIQUE, MICH., Breakwater Light.219

MANITOWOC, WIS., Pierhead Light.... 82

MENOMINEE & MARINETTE, Pierhead Light 154

MICHIGAN CITY, IND., W. Pierhead Light 104

MUSKEGON, MICH., Pierhead Front Range Light 80

OLD MACKINAC POINT.....259

PETOSKEY, MICH., Petoskey Light.....226

PORTE DES MORTS PASSAGE, Pilot Island Light 166

RACINE, WIS., Breakwater Light..... 26

Miles

ROCK ISLAND PASSAGE, Red Gas Buoy No. 2.....178

SHEBOYGAN, WIS., Breakwater Light.. 55

SOUTH CHICAGO, ILL., Pierhead Light. 96

SOUTH HAVEN, MICH., Pierhead Light 93

STURGEON BAY CANAL, Pierhead Light 128

ST. JOSEPH, MICH., Pierhead Light.... 96

TRAVERSE CITY, MICH., Docks.....229

WAUKEGAN, ILL., Harbor Light..... 52

TO PRINCIPAL POINTS ON LAKE SUPERIOR

Via up bound course through St. Marys River. For down bound distances see reverse courses.

Miles

ASHLAND, WIS., Wharf Front.....700
via up bound course through Lake Superior. For down bound distance see reverse course.

Miles

DULUTH, MINN., Piers.....745
via up bound course through Lake Superior. For down bound distance see reverse course.

FORT WILLIAM, ONT., Black Gas Buoy.625
via up bound course through Lake Superior. For down bound distance see reverse course.

HOUGHTON & HANCOCK, MICH.....573

JACKFISH, ONT. 560
via up bound course through Lake Superior. For down bound distance see reverse course.

MARQUETTE, MICH., Breakwater Light.510

PORT ARTHUR, ONT., Red Gas Buoy..626
via up bound course through Lake Superior. For down bound distance see reverse course.

SUPERIOR, WIS., Entry.....743
via up bound course through Lake Superior. For down bound distance see reverse course.

TWO HARBORS, MINN., Breakwater Light 721
via up bound course through Lake Superior. For down bound distance see reverse course.

WHITEFISH POINT 393

TO POINTS ON ST. MARYS RIVER

Miles

SOO LOCKS, American.....352
via up bound course through St. Marys River. For down bound distance see reverse course.

TO PRINCIPAL POINTS ON LAKE HURON

Miles

DEPOT HARBOR, ONT.....490

DETOUR 301

FORT GRATIOT LIGHT.....506
via down bound course through Lake Huron. For up bound distance see reverse course.

HARBOR BEACH, MICH., North Main Light 448
via down bound course through Lake Huron. For up bound distance see reverse course.

OLD MACKINAC POINT.....259

	Miles
OWEN SOUND, ONT.	486
PARRY SOUND, ONT.	494
ROGERS CITY, MICH.	313

TO PRINCIPAL POINTS ON ST. CLAIR & DETROIT RIVERS

Via down bound course through Lake Huron. For up bound distances see reverse courses.

	Miles
AMHERSTBURG, ONT.	588
BAR POINT WEST CHANNEL GAS BUOY No. 1	597
DETROIT, MICH., Foot Woodward Ave.	570
MARINE CITY, MICH.	528
PORT HURON, MICH. (Black River) & SARNIA, ONT.	509
WYANDOTTE, MICH.	580

TO PRINCIPAL POINTS ON LAKE ERIE

Via down bound courses through Lake Huron and Detroit River. For up bound distances see reverse courses.

	Miles
ASHTABULA, OHIO, Outer Entrance	722
BAR POINT WEST CHANNEL GAS BUOY No. 1	597
BUFFALO, N. Y., Buffalo Light	832
CLEVELAND, OHIO, E. Pier Light	679
CONNEAUT, OHIO, Outer Entrance	735
ERIE, PA., Presque Isle Pierhead Light	763
FAIRPORT, OHIO, Outer Entrance	697
HURON, OHIO, Huron Light	649
LONG POINT	768
LORAIN, OHIO, West Pier Light	662
PORT COLBORNE, ONT	815
SANDUSKY, OHIO, E. End Dock Channel	642
TOLEDO, OHIO, Manhattan Front Range Light	622

TO PRINCIPAL POINTS ON LAKE ONTARIO

Via down bound courses through Lake Huron and Detroit River. For up bound distances see reverse courses.

	Miles
ALEXANDRIA BAY, N. Y., Docks	1032
CAPE VINCENT, N. Y., Breakwater Lights	1005
CHARLOTTE, N. Y., Genesee Lights	937
OGDENSBURG, N. Y., Ogdensburg Light	1065
OSWEGO, N. Y., Oswego Light	987
PORT DALHOUSIE, ONT., Front Range Light	843
PORT WELLER, ONT	843
TORONTO, ONT., Docks	874

MUSKEGON, MICH.
Pierhead Front Range Light

TO POINTS ON LAKE MICHIGAN

	Miles
CHARLEVOIX, MICH., Pierhead Light	178
CHICAGO, ILL., Pierhead Range Light	114
ESCANABA, MICH., West Light	181
FRANKFORT, MICH., Pierhead Range Light	104
GARY, IND.	121
GLADSTONE, MICH.	188
GRAND HAVEN, MICH., Front Range Light	14
GREEN BAY, WIS., River Mouth	170
HOLLAND, MICH., Front Range Light	34

Miles

INDIANA HARBOR, IND.....122

KENOSHA, WIS., Breakwater Light..... 87

LUDINGTON, MICH., S. Breakwater Light 56

MANISTEE, MICH., Pierhead Light..... 80

MANISTIQUE, MICH., Breakwater Light.192

MANITOWOC, WIS., Pierhead Light.... 90

MENOMINEE & MARINETTE, Pierhead Light 144

MICHIGAN CITY, IND., W. Pierhead Light 108

MILWAUKEE, WIS., Pierhead Range Light 80

OLD MACKINAC POINT.....225

PETOSKEY, MICH., Petoskey Light.....193

PORTE DES MORTS PASSAGE, Pilot Island Light 147

RACINE, WIS., Breakwater Light..... 80

ROCK ISLAND PASSAGE, Red Gas Buoy No. 2.....156

Muskegon, Mich.—Cont.

	Miles
SHEBOYGAN, WIS., Breakwater Light..	78
SOUTH CHICAGO, ILL., Pierhead Light.	120
SOUTH HAVEN, MICH., Pierhead Light.	59
STURGEON BAY CANAL, Pierhead Light	119
ST. JOSEPH, MICH., Pierhead Light....	78
TRAVERSE CITY, MICH., Docks.....	195
WAUKEGAN, ILL., Harbor Light.....	96

OLD MACKINAC POINT

TO POINTS ON LAKE MICHIGAN

Miles

CHARLEVOIX, MICH., Pierhead Light.. 56

CHICAGO, ILL., Pierhead Range Light..324
Via northabout course.....345

ESCANABA, MICH., West Light.....129
via Saint Martin Island Passage.

FRANKFORT, MICH., Pierhead Range Light 125

GARY, IND. 336
Via northabout course.....357

GLADSTONE, MICH. 136
via Saint Martin Island Passage.

GRAND HAVEN, MICH., Front Range Light 237

Miles

GREEN BAY, WIS., River Mouth.....197

HOLLAND, MICH., Front Range Light..257

INDIANA HARBOR, IND.....336
Via northabout course.....357

KENOSHA, WIS., Breakwater Light.....282
Via northabout course.....302

LUDINGTON, MICH., S. Breakwater Light.....173

MANISTEE, MICH., Pierhead Light.....150

MANISTIQUE, MICH., Breakwater Light 75

MANITOWOC, WIS., Pierhead Light....194
Via northabout course.....205

MENOMINEE & MARINETTE, Pierhead Light.....155

MICHIGAN CITY, IND., W. Pierhead Light.....326

MILWAUKEE, WIS., Pierhead Range Light.....259
Via northabout course.....276

MUSKEGON, MICH., Pierhead Front Range Light.....225

Miles

PETOSKEY, MICH., Petoskey Light..... 57

PORTE DES MORTS PASSAGE, Pilot Island Light 124

RACINE, WIS., Breakwater Light.....272
Via northabout course.....291

ROCK ISLAND PASSAGE, Red Gas Buoy No. 2.....106

SAINT MARTIN ISLAND PASSAGE...103

SHEBOYGAN, WIS., Breakwater Light..212
Via northabout course.....226

SOUTH CHICAGO, ILL., Pierhead Light.333
Via northabout course.....353

SOUTH HAVEN, MICH., Pierhead Light.281

STURGEON BAY CANAL, Pierhead Light 151
Via northabout course.....156

ST. JOSEPH, MICH., Pierhead Light....299

TRAVERSE CITY, MICH., Docks..... 97

WAUKEGAN, ILL., Harbor Light.....296
Via northabout course.....315

TO PRINCIPAL POINTS ON LAKE SUPERIOR

Via up bound course through St. Marys River. For down bound distances see reverse courses.

Miles

ASHLAND, WIS., Wharf Front.....441
via up bound course through Lake Superior. For down bound distance see reverse course.

DULUTH, MINN., Piers.....486
via up bound course through Lake Superior. For down bound distance see reverse course.

FORT WILLIAM, ONT., Black Gas Buoy.366
via up bound course through Lake Superior. For down bound distance see reverse course.

HOUGHTON & HANCOCK, MICH.....314

JACKFISH, ONT. 301
via up bound course through Lake Superior. For down bound distance see reverse course.

MARQUETTE, MICH., Breakwater Light.251

PORT ARTHUR, ONT., Red Gas Buoy..367
via up bound course through Lake Superior. For down bound distance see reverse course.

Miles

SUPERIOR, WIS., Entry.....484
via up bound course through Lake Superior. For down bound distance see reverse course.

TWO HARBORS, MINN., Breakwater Light.....462
via up bound course through Lake Superior. For down bound distance see reverse course.

WHITEFISH POINT.....134

TO POINTS ON ST. MARYS RIVER

Miles

SOO LOCKS, American..... 93
via up bound course through St. Marys River. For down bound distance see reverse course.

TO PRINCIPAL POINTS ON LAKE HURON

Miles

DEPOT HARBOR, ONT.....231

	Miles
DETOUR	42
FORT GRATIOT LIGHT via down bound course through Lake Huron. For up bound distance see reverse course.	247
HARBOR BEACH, MICH., North Main Light via down bound course through Lake Huron. For up bound distance see reverse course.	189
OWEN SOUND, ONT	227
PARRY SOUND, ONT	235
ROGERS CITY, MICH	54

TO PRINCIPAL POINTS ON ST. CLAIR & DETROIT RIVERS

Via down bound course through Lake Huron. For up bound distances see reverse courses.

	Miles
AMHERSTBURG, ONT.	329
BAR POINT WEST CHANNEL GAS BUOY No. 1	338

	Miles
DETROIT, MICH., Foot Woodward Ave.	311
MARINE CITY, MICH.	269
PORT HURON, MICH. (Black River) & SARNIA, ONT.	250
WYANDOTTE, MICH.	321

TO PRINCIPAL POINTS ON LAKE ERIE

Via down bound courses through Lake Huron and Detroit River. For up bound distances see reverse courses.

	Miles
ASHTABULA, OHIO, Outer Entrance	463
BAR POINT WEST CHANNEL GAS BUOY NO. 1	338
BUFFALO, N. Y., Buffalo Light	573
CLEVELAND, OHIO, E. Pier Light	420
CONNEAUT, OHIO, Outer Entrance	476
ERIE, PA., Presque Isle Pierhead Light	504

Miles

FAIRPORT, OHIO, Outer Entrance.....438

HURON, OHIO, Huron Light.....390

LONG POINT 509

LORAIN, OHIO, West Pier Light.....403

PORT COLBORNE, ONT.....556

SANDUSKY, OHIO, E. End Dock Channel 383

TOLEDO, OHIO, Manhattan Front Range Light 363

TO PRINCIPAL POINTS ON LAKE ONTARIO

Via down bound courses through Lake Huron and Detroit River. For up bound distances see reverse courses.

Miles

ALEXANDRIA BAY, N. Y., Docks.....773

CAPE VINCENT, N. Y., Breakwater Lights 746

CHARLOTTE, N. Y., Genesee Lights....678

Miles

OGDENSBURG, N. Y., Ogdensburg Light 806

OSWEGO, N. Y., Oswego Light 728

PORT DALHOUSIE, ONT., Front Range Light 584

PORT WELLER, ONT 584

TORONTO, ONT., Docks 615

PETOSKEY, MICH.

Petoskey Light

TO POINTS ON LAKE MICHIGAN

	Miles
CHARLEVOIX, MICH., Pierhead Light	18
CHICAGO, ILL., Pierhead Range Light	292
ESCANABA, MICH., West Light	115
FRANKFORT, MICH., Pierhead Range Light	91
GARY, IND.	304
GLADSTONE, MICH.	122
GRAND HAVEN, MICH., Front Range Light	206
GREEN BAY, WIS., River Mouth	180
HOLLAND, MICH., Front Range Light	225

Miles

INDIANA HARBOR, IND.....304

KENOSHA, WIS., Breakwater Light.....250

LUDINGTON, MICH., S. Breakwater Light.....141

MANISTEE, MICH., Pierhead Light.....118

MANISTIQUE, MICH., Breakwater Light 79

MANITOWOC, WIS., Pierhead Light....163

MENOMINEE & MARINETTE, Pierhead Light.....136

MICHIGAN CITY, IND., W. Pierhead Light.....294

MILWAUKEE, WIS., Pierhead Range Light.....226

MUSKEGON, MICH., Pierhead Front Range Light.....193

OLD MACKINAC POINT..... 57

PORTE DES MORTS PASSAGE, Pilot Island Light..... 99

RACINE, WIS., Breakwater Light.....240

ROCK ISLAND PASSAGE, Red Gas Buoy No. 2..... 88

Miles

SHEBOYGAN, WIS., Breakwater Light..180

SOUTH CHICAGO, ILL., Pierhead Light.300

SOUTH HAVEN, MICH., Pierhead Light.249

STURGEON BAY CANAL, Pierhead Light 126

ST. JOSEPH, MICH., Pierhead Light....267

TRAVERSE CITY, MICH., Docks..... 61

WAUKEGAN, ILL., Harbor Light.....264

PORTE DES MORTS PASSAGE

Pilot Island Light

Old Mackinac Point and points north and east are via northabout course through Lake Michigan.

TO POINTS ON LAKE MICHIGAN

	Miles
CHARLEVOIX, MICH., Pierhead Light	84
CHICAGO, ILL., Pierhead Range Light	239
ESCANABA, MICH., West Light	33
FRANKFORT, MICH., Pierhead Range Light	56
GARY, IND.	254
GLADSTONE, MICH.	40
GRAND HAVEN, MICH., Front Range Light	159

Porte des Morts Passage—Cont.

Miles

GREEN BAY, WIS., River Mouth..... 81

HOLLAND, MICH., Front Range Light..178

INDIANA HARBOR, IND.....253

KENOSHA, WIS., Breakwater Light.....193

LUDINGTON, MICH., S. Breakwater Light 96

MANISTEE, MICH., Pierhead Light..... 77

MANISTIQUE, MICH., Breakwater Light 60

MANITOWOC, WIS., Pierhead Light.... 93

MENOMINEE & MARINETTE, Pierhead Light 37

MICHIGAN CITY, IND., W. Pierhead Light 246

MILWAUKEE, WIS., Pierhead Range Light 166

MUSKEGON, MICH., Pierhead Front Range Light 147

OLD MACKINAC POINT.....124

PETOSKEY, MICH., Petoskey Light..... 99

RACINE, WIS., Breakwater Light.....183

Miles

ROCK ISLAND PASSAGE, Red Gas Buoy No. 2..... 15

SHEBOYGAN, WIS., Breakwater Light..114

SOUTH CHICAGO, ILL., Pierhead Light.250

SOUTH HAVEN, MICH., Pierhead Light.202

STURGEON BAY CANAL, Pierhead Light 42

ST. JOSEPH, MICH., Pierhead Light....220

TRAVERSE CITY, MICH., Docks.....104

WAUKEGAN, ILL., Harbor Light.....209

TO PRINCIPAL POINTS ON LAKE SUPERIOR

Via up bound course through St. Marys River. For down bound distances see reverse courses.

Miles

ASHLAND, WIS., Wharf Front.....565
via up bound course through Lake Superior. For down bound distance see reverse course.

Miles

DULUTH, MINN., Piers.....610
via up bound course through Lake Superior. For down bound distance see reverse course.

FORT WILLIAM, ONT., Black Gas Buoy.490
via up bound course through Lake Superior. For down bound distance see reverse course.

HOUGHTON & HANCOCK, MICH.....438

JACKFISH, ONT. 425
via up bound course through Lake Superior. For down bound distance see reverse course.

MARQUETTE, MICH., Breakwater Light.375

PORT ARTHUR, ONT., Red Gas Buoy..491
via up bound course through Lake Superior. For down bound distance see reverse course.

SUPERIOR, WIS., Entry.....608
via up bound course through Lake Superior. For down bound distance see reverse course.

TWO HARBORS, MINN., Breakwater Light 586
via up bound course through Lake Superior. For down bound distance see reverse course.

WHITEFISH POINT 258

TO POINTS ON ST. MARYS RIVER

Miles

SOO LOCKS, American.....217
via up bound course through St. Marys River. For down bound distance see reverse course.

TO PRINCIPAL POINTS ON LAKE HURON

Miles

DEPOT HARBOR, ONT.....355

DETOUR 166

FORT GRATIOT LIGHT.....371
via down bound course through Lake Huron. For up bound distance see reverse course.

HARBOR BEACH, MICH., North Main Light 313
via down bound course through Lake Huron. For up bound distance see reverse course.

OLD MACKINAC POINT.....124

	Miles
OWEN SOUND, ONT.	351
PARRY SOUND, ONT.	359
ROGERS CITY, MICH.	178

TO PRINCIPAL POINTS ON ST. CLAIR & DETROIT RIVERS

Via down bound course through Lake Huron. For up bound distances see reverse courses.

	Miles
AMHERSTBURG, ONT.	453
BAR POINT WEST CHANNEL GAS BUOY No. 1	462
DETROIT, MICH., Foot Woodward Ave.	435
MARINE CITY, Mich.	393
PORT HURON, MICH. (Black River) & SARNIA, ONT.	374
WYANDOTTE, MICH.	445

TO PRINCIPAL POINTS ON LAKE ERIE

Via down bound courses through Lake Huron and Detroit River. For up bound distances see reverse courses.

	Miles
ASHTABULA, OHIO, Outer Entrance	587
BAR POINT WEST CHANNEL GAS BUOY No. 1	462
BUFFALO, N. Y., Buffalo Light	697
CLEVELAND, OHIO, E. Pier Light	544
CONNEAUT, OHIO, Outer Entrance	600
ERIE, PA., Presque Isle Pierhead Light	628
FAIRPORT, OHIO, Outer Entrance	562
HURON, OHIO, Huron Light	514
LONG POINT	633
LORAIN, OHIO, West Pier Light	527
PORT COLBORNE, ONT	680
SANDUSKY, OHIO, E. End Dock Channel	507
TOLEDO, OHIO, Manhattan Front Range Light	487

TO PRINCIPAL POINTS ON LAKE ONTARIO

Via down bound courses through Lake Huron and Detroit River. For up bound distances see reverse courses.

	Miles
ALEXANDRIA BAY, N. Y., Docks	897
CAPE VINCENT, N. Y., Breakwater Lights	870
CHARLOTTE, N. Y., Genesee Lights	802
OGDENSBURG, N. Y., Ogdensburg Light	930
OSWEGO, N. Y., Oswego Light	852
PORT DALHOUSIE, ONT., Front Range Light	708
PORT WELLER, ONT	708
TORONTO, ONT., Docks	739

RACINE, WIS.
Breakwater Light

TO POINTS ON LAKE MICHIGAN

	Miles
CHARLEVOIX, MICH., Pierhead Light	225
CHICAGO, ILL., Pierhead Range Light	64
ESCANABA, MICH., West Light	217
FRANKFORT, MICH., Pierhead Range Light	153
GARY, IND.	83
GLADSTONE, MICH.	224
GRAND HAVEN, MICH., Front Range Light	80
GREEN BAY, WIS., River Mouth	197
HOLLAND, MICH., Front Range Light	79

Miles

INDIANA HARBOR, IND..... 79

KENOSHA, WIS., Breakwater Light..... 15

LUDINGTON, MICH., Pierhead Light...108

MANISTEE, MICH., Pierhead Light.....129

MANISTIQUE, MICH., Breakwater Light.235

MANITOWOC, WIS., Pierhead Light....100

MENOMINEE & MARINETTE, Pierhead Light 171

MICHIGAN CITY, IND., W. Pierhead Light 84

MILWAUKEE, WIS., Pierhead Range Light 26

MUSKEGON, MICH., Pierhead Front Range Light 80

OLD MACKINAC POINT.....272

PETOSKEY, MICH., Petoskey Light....240

PORTE DES MORTS PASSAGE, Pilot Island Light 183

ROCK ISLAND PASSAGE, Red Gas Buoy No. 2.....195

Miles

SHEBOYGAN, WIS., Breakwater Light.. 74

SOUTH CHICAGO, ILL., Pierhead Light. 75

SOUTH HAVEN, MICH., Pierhead Light. 80

STURGEON BAY CANAL, Pierhead Light 146

ST. JOSEPH, MICH., Pierhead Light.... 79

TRAVERSE CITY, MICH., Docks.....242

WAUKEGAN, ILL., Harbor Light..... 31

ROCK ISLAND PASSAGE

Red Gas Buoy No. 2

Old Mackinac Point and points north and east are via northabout course through Lake Michigan.

TO POINTS ON LAKE MICHIGAN

	Miles
CHARLEVOIX, MICH., Pierhead Light	75
CHICAGO, ILL., Pierhead Range Light	251
ESCANABA, MICH., West Light	29
FRANKFORT, MICH., Pierhead Range Light	61
GARY, IND.	265
GLADSTONE, MICH.	36
GRAND HAVEN, MICH., Front Range Light	168

Miles

GREEN BAY, WIS., River Mouth
Via Strawberry Channel..... 92
Via Chambers Island..... 93

HOLLAND, MICH., Front Range Light..188

INDIANA HARBOR, IND.....264

KENOSHA, WIS., Breakwater Light.....205

LUDINGTON, MICH., Pierhead Light...104

MANISTEE, MICH., Pierhead Light..... 84

MANISTIQUE, MICH., Breakwater Light 37

MANITOWOC, WIS., Pierhead Light....105

MENOMINEE & MARINETTE, Pierhead Light 48

MICHIGAN CITY, IND., W. Pierhead Light 257

MILWAUKEE, WIS., Pierhead Range Light 178

MUSKEGON, MICH., Pierhead Front Range Light 156

OLD MACKINAC POINT.....106

PETOSKEY, MICH., Petoskey Light..... 88

Miles

PORTE DES MORTS PASSAGE, Pilot Island Light 15

RACINE, WIS., Breakwater Light.....195

SHEBOYGAN, WIS., Breakwater Light..126

SOUTH CHICAGO, ILL., Pierhead Light.260

SOUTH HAVEN, MICH., Pierhead Light.212

STURGEON BAY CANAL, Pierhead Light 55

ST. JOSEPH, MICH., Pierhead Light....230

TRAVERSE CITY, MICH., Docks..... 94

WAUKEGAN, ILL., Harbor Light.....221

TO PRINCIPAL POINTS ON LAKE SUPERIOR

Via up bound course through St. Marys River. For down bound distances see reverse courses.

Miles

ASHLAND, WIS., Wharf Front.....547
via up bound course through Lake Superior. For down bound distance see reverse course.

DULUTH, MINN., Piers.....592
via up bound course through Lake Superior. For down bound distance see reverse course.

FORT WILLIAM, ONT., Black Gas Buoy.472
via up bound course through Lake Superior. For down bound distance see reverse course.

HOUGHTON & HANCOCK, MICH.....420

JACKFISH, ONT. 407
via up bound course through Lake Superior. For down bound distance see reverse course.

MARQUETTE, MICH., Breakwater Light.357

PORT ARTHUR, ONT., Red Gas Buoy..473
via up bound course through Lake Superior. For down bound distance see reverse course.

Miles

SUPERIOR, WIS., Entry.....590
via up bound course through Lake Superior. For down bound distance see reverse course.

TWO HARBORS, MINN., Breakwater Light.....568
via up bound course through Lake Superior. For down bound distance see reverse course.

WHITEFISH POINT.....240

TO POINTS ON ST. MARYS RIVER

Miles

SOO LOCKS, American.....199
via up bound course through St. Marys River. For down bound distance see reverse course.

TO PRINCIPAL POINTS ON LAKE HURON

Miles

DEPOT HARBOR, ONT.....337

Miles

DETOUR 148

FORT GRATIOT LIGHT.....353
via down bound course through Lake Huron. For up bound distance see reverse course.

HARBOR BEACH, MICH., North Main Light 295
via down bound course through Lake Huron. For up bound distance see reverse course.

OLD MACKINAC POINT.....106

OWEN SOUND, ONT.....333

PARRY SOUND, ONT.....341

ROGERS CITY, MICH.....160

TO PRINCIPAL POINTS ON ST. CLAIR & DETROIT RIVERS

Via down bound course through Lake Huron. For up bound distances see reverse courses.

Miles

AMHERSTBURG, ONT. 435

Miles

BAR POINT WEST CHANNEL GAS BUOY No. 1.....444

DETROIT, MICH., Foot Woodward Ave..417

MARINE CITY, MICH.....375

PORT HURON, MICH. (Black River) & SARNIA, ONT. 356

WYANDOTTE, MICH. 427

TO PRINCIPAL POINTS ON LAKE ERIE

Via down bound courses through Lake Huron and Detroit River. For up bound distances see reverse courses.

Miles

ASHTABULA, OHIO, Outer Entrance...569

BAR POINT WEST CHANNEL GAS BUOY No. 1.....444

BUFFALO, N. Y., Buffalo Light.....679

CLEVELAND, OHIO, E. Pier Light.....526

Rock Island Passage—Cont.

Miles

CONNEAUT, OHIO, Outer Entrance.....582

ERIE, PA., Presque Isle Pierhead Light...610

FAIRPORT, OHIO, Outer Entrance.....544

HURON, OHIO, Huron Light.....496

LONG POINT 615

LORAIN, OHIO, West Pier Light.....509

PORT COLBORNE, ONT.....662

SANDUSKY, OHIO, E. End Dock Channel 489

TOLEDO, OHIO, Manhattan Front Range Light 469

TO PRINCIPAL POINTS ON LAKE ONTARIO

Via down bound courses through Lake Huron and Detroit River. For up bound distances see reverse courses.

	Miles
ALEXANDRIA BAY, N. Y., Docks	879
CAPE VINCENT, N. Y., Breakwater Lights	852
CHARLOTTE, N. Y., Genesee Lights	784
OGDENSBURG, N. Y., Ogdensburg Light	912
OSWEGO, N. Y., Oswego Light	834
PORT DALHOUSIE, ONT., Front Range Light	690
PORT WELLER, ONT	690
TORONTO, ONT., Docks	721

SAINT MARTIN ISLAND PASSAGE

TO POINTS ON LAKE MICHIGAN

	Miles
ESCANABA, MICH., West Light	26
GLADSTONE, MICH.	33
OLD MACKINAC POINT	103

SHEBOYGAN, WIS.
Breakwater Light

TO POINTS ON LAKE MICHIGAN

	Miles
CHARLEVOIX, MICH., Pierhead Light	165
CHICAGO, ILL., Pierhead Range Light	132
ESCANABA, MICH., West Light	149
FRANKFORT, MICH., Pierhead Range Light	95
GARY, IND.	149
GLADSTONE, MICH.	156
GRAND HAVEN, MICH., Front Range Light	87
GREEN BAY, WIS., River Mouth	127
HOLLAND, MICH., Front Range Light	102

Miles

INDIANA HARBOR, IND.....146

KENOSHA, WIS., Breakwater Light..... 84

LUDINGTON, MICH., S. Breakwater Light 63

MANISTEE, MICH., Pierhead Light..... 76

MANISTIQUE, MICH., Breakwater Light.169

MANITOWOC, WIS., Pierhead Light.... 27

MENOMINEE & MARINETTE, Pierhead Light 102

MICHIGAN CITY, IND., W. Pierhead Light 146

MILWAUKEE, WIS., Pierhead Range Light 55

MUSKEGON, MICH., Pierhead Front Range Light 78

OLD MACKINAC POINT.....212

PETOSKEY, MICH., Petoskey Light.....180

PORTE DES MORTS PASSAGE, Pilot Island Light 114

RACINE, WIS., Breakwater Light..... 74

Miles

ROCK ISLAND PASSAGE, Red Gas Buoy No. 2.....126

SOUTH CHICAGO, ILL., Pierhead Light.143

SOUTH HAVEN, MICH., Pierhead Light.118

STURGEON BAY CANAL, Pierhead Light 76

ST. JOSEPH, MICH., Pierhead Light....129

TRAVERSE CITY, MICH., Docks.....182

WAUKEGAN, ILL., Harbor Light..... 99

TO PRINCIPAL POINTS ON LAKE SUPERIOR

Via up bound course through St. Marys River. For down bound distances see reverse courses.

Miles

ASHLAND, WIS., Wharf Front.....653
via up bound course through Lake Superior. For down bound distance see reverse course.

Miles

DULUTH, MINN., Piers.....698
via up bound course through Lake Superior. For down bound distance see reverse course.

FORT WILLIAM, ONT., Black Gas Buoy.578
via up bound course through Lake Superior. For down bound distance see reverse course.

HOUGHTON & HANCOCK, MICH.....526

JACKFISH, ONT. 513
via up bound course through Lake Superior. For down bound distance see reverse course.

MARQUETTE, MICH., Breakwater Light.463

PORT ARTHUR, ONT., Red Gas Buoy..579
via up bound course through Lake Superior. For down bound distance see reverse course.

SUPERIOR, WIS., Entry.....696
via up bound course through Lake Superior. For down bound distance see reverse course.

TWO HARBORS, MINN., Breakwater Light 674
via up bound course through Lake Superior. For down bound distance see reverse course.

WHITEFISH POINT 346

TO POINTS ON ST. MARYS RIVER

Miles

SOO LOCKS, American.....305
via up bound course through St. Marys River. For down bound distance see reverse course.

TO PRINCIPAL POINTS ON LAKE HURON

Miles

DEPOT HARBOR, ONT.....443

DETOUR 254

FORT GRATIOT LIGHT.....459
via down bound course through Lake Huron. For up bound distance see reverse course.

HARBOR BEACH, MICH., North Main Light 401
via down bound course through Lake Huron. For up bound distance see reverse course.

OLD MACKINAC POINT.....212

	Miles
OWEN SOUND, ONT.	439
PARRY SOUND, ONT.	447
ROGERS CITY, MICH.	266

TO PRINCIPAL POINTS ON ST. CLAIR & DETROIT RIVERS

Via down bound course through Lake Huron. For up bound distances see reverse courses.

	Miles
AMHERSTBURG, ONT.	541
BAR POINT WEST CHANNEL GAS BUOY No. 1	550
DETROIT, MICH., Foot Woodward Ave.	523
MARINE CITY, MICH.	481
PORT HURON, MICH. (Black River) & SARNIA, ONT.	462
WYANDOTTE, MICH.	533

TO PRINCIPAL POINTS ON LAKE ERIE

Via down bound courses through Lake Huron and Detroit River. For up bound distances see reverse courses.

	Miles
ASHTABULA, OHIO., Outer Entrance	675
BAR POINT WEST CHANNEL GAS BUOY No. 1	550
BUFFALO, N. Y., Buffalo Light	785
CLEVELAND, OHIO, E. Pier Light	632
CONNEAUT, OHIO, Outer Entrance	688
ERIE, PA., Presque Isle Pierhead Light	716
FAIRPORT, OHIO, Outer Entrance	650
HURON, OHIO, Huron Light	602
LONG POINT	721
LORAIN, OHIO, West Pier Light	615
PORT COLBORNE, ONT	768
SANDUSKY, OHIO, E. End Dock Channel	595
TOLEDO, OHIO, Manhattan Front Range Light	575

TO PRINCIPAL POINTS ON LAKE ONTARIO

Via down bound courses through Lake Huron and Detroit River. For up bound distances see reverse courses.

	Miles
ALEXANDRIA BAY, N. Y., Docks	985
CAPE VINCENT, N. Y., Breakwater Lights	958
CHARLOTTE, N. Y., Genesee Lights	890
OGDENSBURG, N. Y., Ogdensburg Light	1018
OSWEGO, N. Y., Oswego Light	940
PORT DALHOUSIE, ONT., Front Range Light	796
PORT WELLER, ONT	796
TORONTO, ONT., Docks	827

SOUTH CHICAGO, ILL.
Pierhead Light

TO POINTS ON LAKE MICHIGAN

	Miles
CHARLEVOIX, MICH., Pierhead Light	286
CHICAGO, ILL., Pierhead Range Light	15
ESCANABA, MICH., West Light	283
FRANKFORT, MICH., Pierhead Range Light	213
GARY, IND.	17
GLADSTONE, MICH.	290
GRAND HAVEN, MICH., Front Range Light	114
GREEN BAY, WIS., River Mouth	265
HOLLAND, MICH., Front Range Light	100

Miles

INDIANA HARBOR, IND..... 8

KENOSHA, WIS., Breakwater Light..... 64

LUDINGTON, MICH., S. Breakwater Light 164

MANISTEE, MICH., Pierhead Light.....188

MANISTIQUE, MICH., Breakwater Light.298

MANITOWOC, WIS., Pierhead Light....169

MENOMINEE & MARINETTE, Pierhead Light 239

MICHIGAN CITY, IND., W. Pierhead Light 32

MILWAUKEE, WIS., Pierhead Range Light 96

MUSKEGON, MICH., Pierhead Front Range Light 120

OLD MACKINAC POINT.....333

PETOSKEY, MICH., Petoskey Light.....300

PORTE DES MORTS PASSAGE, Pilot Island Light 250

RACINE, WIS., Breakwater Light..... 75

Miles

ROCK ISLAND PASSAGE, Red Gas Buoy No. 2.....260

SHEBOYGAN, WIS., Breakwater Light..143

SOUTH HAVEN, MICH., Pierhead Light 79

STURGEON BAY CANAL, Pierhead Light 213

ST. JOSEPH, MICH., Pierhead Light.... 60

TRAVERSE CITY, MICH., Docks.....303

WAUKEGAN, ILL., Harbor Light..... 49

TO PRINCIPAL POINTS ON LAKE SUPERIOR

Via up bound course through St. Marys River. For down bound distances see reverse courses.

Miles

ASHLAND, WIS., Wharf Front.....774
via up bound course through Lake Superior. For down bound distance see reverse course.

Miles

DULUTH, MINN., Piers.....819
via up bound course through Lake Superior. For down bound distance see reverse course.

FORT WILLIAM, ONT., Black Gas Buoy.699
via up bound course through Lake Superior. For down bound distance see reverse course.

HOUGHTON & HANCOCK, MICH.....647

JACKFISH, ONT. 634
via up bound course through Lake Superior. For down bound distance see reverse course.

MARQUETTE, MICH., Breakwater Light.584

PORT ARTHUR, ONT., Red Gas Buoy..700
via up bound course through Lake Superior. For down bound distance see reverse course.

SUPERIOR, WIS., Entry.....817
via up bound course through Lake Superior. For down bound distance see reverse course.

TWO HARBORS, MINN., Breakwater Light 795
via up bound course through Lake Superior. For down bound distance see reverse course.

WHITEFISH POINT 467

TO POINTS ON ST. MARYS RIVER

Miles

SOO LOCKS, American.....426
via up bound course through St. Marys River. For down bound distance see reverse course.

TO PRINCIPAL POINTS ON LAKE HURON

Miles

DEPOT HARBOR, ONT.....564

DETOUR 375

FORT GRATIOT LIGHT.....580
via down bound course through Lake Huron. For up bound distance see reverse course.

HARBOR BEACH, MICH., North Main Light 522
via down bound course through Lake Huron. For up bound distance see reverse course.

OLD MACKINAC POINT.....333

	Miles
OWEN SOUND, ONT.	560
PARRY SOUND, ONT.	568
ROGERS CITY, MICH.	387

TO PRINCIPAL POINTS ON ST. CLAIR & DETROIT RIVERS

Via down bound course through Lake Huron. For up bound distance see reverse course.

	Miles
AMHERSTBURG, ONT.	662
BAR POINT WEST CHANNEL GAS BUOY No. 1	671
DETROIT, MICH., Foot Woodward Ave.	644
MARINE CITY, MICH.	602
PORT HURON, MICH. (Black River) & SARNIA, ONT.	583
WYANDOTTE, MICH.	654

TO PRINCIPAL POINTS ON LAKE ERIE

Via down bound courses through Lake Huron and Detroit River. For up bound distances see reverse courses.

	Miles
ASHTABULA, OHIO, Outer Entrance	796
BAR POINT WEST CHANNEL GAS BUOY No. 1	671
BUFFALO, N. Y., Buffalo Light	906
CLEVELAND, OHIO, E. Pier Light	753
CONNEAUT, OHIO, Outer Entrance	809
ERIE, PA., Presque Isle Pierhead Light	837
FAIRPORT, OHIO, Outer Entrance	771
HURON, OHIO, Huron Light	723
LONG POINT	842
LORAIN, OHIO, West Pier Light	736
PORT COLBORNE, ONT	889
SANDUSKY, OHIO, E. End Dock Channel	716
TOLEDO, OHIO, Manhattan Front Range Light	696

TO PRINCIPAL POINTS ON LAKE ONTARIO

Via down bound courses through Lake Huron and Detroit River. For up bound distances see reverse courses.

	Miles
ALEXANDRIA BAY, N. Y., Docks	1106
CAPE VINCENT, N. Y., Breakwater Lights	1079
CHARLOTTE, N. Y., Genesee Lights	1011
OGDENSBURG, N. Y., Ogdensburg Light	1139
OSWEGO, N. Y., Oswego Light	1061
PORT DALHOUSIE, ONT., Front Range Light	917
PORT WELLER, ONT	917
TORONTO, ONT., Docks	948

SOUTH HAVEN, MICH.
Pierhead Light

TO POINTS ON LAKE MICHIGAN

	Miles
CHARLEVOIX, MICH., Pierhead Light	234
CHICAGO, ILL., Pierhead Range Light	77
ESCANABA, MICH., West Light	237
FRANKFORT, MICH., Pierhead Range Light	161
GARY, IND.	76
GLADSTONE, MICH.	244
GRAND HAVEN, MICH., Front Range Light	49
GREEN BAY, WIS., River Mouth	225
HOLLAND, MICH., Front Range Light	28

Miles

INDIANA HARBOR, IND..... 80

KENOSHA, WIS., Breakwater Light..... 79

LUDINGTON, MICH., Pierhead Light...112

MANISTEE, MICH., Pierhead Light.....136

MANISTIQUE, MICH., Breakwater Light.248

MANITOWOC, WIS., Pierhead Light.....138

MENOMINEE & MARINETTE, Pierhead Light 199

MICHIGAN CITY, W. Pierhead Light... 57

MILWAUKEE, WIS., Pierhead Range Light 93

MUSKEGON, MICH., Pierhead Front Range Light 59

OLD MACKINAC POINT.....281

PETOSKEY, MICH., Petoskey Light.....249

PORTE DES MORTS PASSAGE, Pilot Island Light 202

RACINE, WIS., Breakwater Light..... 80

ROCK ISLAND PASSAGE, Red Gas Buoy No. 2.....212

Miles

SHEBOYGAN, WIS., Breakwater Light..118

SOUTH CHICAGO, ILL., Pierhead Light. 79

STURGEON BAY CANAL, Pierhead Light 174

ST. JOSEPH, MICH., Pierhead Light.... 24

TRAVERSE CITY, MICH., Docks.....251

WAUKEGAN, ILL., Harbor Light..... 78

STURGEON BAY CANAL
Pierhead Light

TO POINTS ON LAKE MICHIGAN

	Miles
CHARLEVOIX, MICH., Pierhead Light	111
CHICAGO, ILL., Pierhead Range Light	203
ESCANABA, MICH., West Light	74
FRANKFORT, MICH., Pierhead Range Light	54
GARY, IND.	219
GLADSTONE, MICH.	81
GRAND HAVEN, MICH., Front Range Light	132
GREEN BAY, WIS., River Mouth	51
HOLLAND, MICH., Front Range Light	151

Miles

INDIANA HARBOR, IND.....216

KENOSHA, WIS., Breakwater Light.....156

LUDINGTON, MICH., Pierhead Light... 72

MANISTEE, MICH., Pierhead Light..... 60

MANISTIQUE, MICH., Breakwater Light 97

MANITOWOC, WIS., Pierhead Light.... 55

MENOMINEE & MARINETTE, Pierhead Light 26

MICHIGAN CITY, IND., W. Pierhead Light 213

MILWAUKEE, WIS., Pierhead Range Light 128

MUSKEGON, MICH., Pierhead Front Range Light 119

OLD MACKINAC POINT.....151

PETOSKEY, MICH., Petoskey Light.....126

PORTE DES MORTS PASSAGE, Pilot Island Light 42

RACINE, WIS., Breakwater Light.....146

Miles

ROCK ISLAND PASSAGE, Red Gas Buoy No. 2..... 55

SHEBOYGAN, WIS., Breakwater Light.. 76

SOUTH CHICAGO, ILL., Pierhead Light.213

SOUTH HAVEN, MICH., Pierhead Light.174

ST. JOSEPH, MICH., Pierhead Light....190

TRAVERSE CITY, MICH., Docks.....129

WAUKEGAN, ILL., Harbor Light.....171

ST. JOSEPH, MICH.
Pierhead Light

TO POINTS ON LAKE MICHIGAN

	Miles
CHARLEVOIX, MICH., Pierhead Light	252
CHICAGO, ILL., Pierhead Range Light	60
ESCANABA, MICH., West Light	255
FRANKFORT, MICH., Pierhead Range Light	179
GARY, IND.	54
GLADSTONE, MICH.	262
GRAND HAVEN, MICH., Front Range Light	69
GREEN BAY, WIS., River Mouth	241
HOLLAND, MICH., Front Range Light	50

Miles

INDIANA HARBOR, IND..... 60

KENOSHA, WIS., Breakwater Light..... 75

LUDINGTON, MICH., S. Breakwater Light 130

MANISTEE, MICH., Pierhead Light.....153

MANISTIQUE, MICH., Breakwater Light.266

MANITOWOC, WIS., Pierhead Light....152

MENOMINEE & MARINETTE, Pierhead Light 215

MICHIGAN CITY, IND., West Pierhead Light 36

MILWAUKEE, WIS., Pierhead Range Light 96

MUSKEGON, MICH., Pierhead Front Range Light 78

OLD MACKINAC POINT.....299

PETOSKEY, MICH., Petoskey Light.....267

PORTE DES MORTS PASSAGE, Pilot Island Light 220

RACINE, WIS., Breakwater Light..... 79

Miles

ROCK ISLAND PASSAGE, Red Gas Buoy No. 2.....230

SHEBOYGAN, WIS., Breakwater Light..129

SOUTH CHICAGO, ILL., Pierhead Light. 60

SOUTH HAVEN, MICH., Pierhead Light 24

STURGEON BAY CANAL, Pierhead Light 190

TRAVERSE CITY, MICH., Docks.... ..269

WAUKEGAN, ILL., Harbor Light..... 70

TRAVERSE CITY, MICH.
Docks

TO POINTS ON LAKE MICHIGAN

	Miles
CHARLEVOIX, MICH., Pierhead Light	46
CHICAGO, ILL., Pierhead Range Light	294
ESCANABA, MICH., West Light	123
FRANKFORT, MICH., Pierhead Range Light	93
GARY, IND.	306
GLADSTONE, MICH.	130
GRAND HAVEN, MICH., Front Range Light	208
GREEN BAY, WIS., River Mouth	180
HOLLAND, MICH., Front Range Light	227

Miles

INDIANA HARBOR, IND.....306

KENOSHA, WIS., Breakwater Light.....252

LUDINGTON, MICH., S. Breakwater Light 144

MANISTEE, MICH., Pierhead Light.....120

MANISTIQUE, MICH., Breakwater Light 94

MANITOWOC, WIS., Pierhead Light....165

MENOMINEE & MARINETTE, Pierhead Light 140

MICHIGAN CITY, IND., West Pierhead Light 296

MILWAUKEE, WIS., Pierhead Range Light 229

MUSKEGON, MICH., Pierhead Front Range Light 195

OLD MACKINAC POINT..... 97

PETOSKEY, MICH., Petoskey Light..... 61

PORTE DES MORTS PASSAGE, Pilot Island Light 104

RACINE, WIS., Breakwater Light.....242

Miles

ROCK ISLAND PASSAGE, Red Gas Buoy No. 2..... 94

SHEBOYGAN, WIS., Breakwater Light..182

SOUTH CHICAGO, ILL., Pierhead Light.303

SOUTH HAVEN, MICH., Pierhead Light.251

STURGEON BAY CANAL, Pierhead Light 129

ST. JOSEPH, MICH., Pierhead Light ...269

WAUKEGAN, ILL., Harbor Light.....266

WAUKEGAN, ILL.
Harbor Light

TO POINTS ON LAKE MICHIGAN

	Miles
CHARLEVOIX, MICH., Pierhead Light	249
CHICAGO, ILL., Pierhead Range Light	38
ESCANABA, MICH., West Light	243
FRANKFORT, MICH., Pierhead Range Light	177
GARY, IND.	58
GLADSTONE, MICH.	250
GRAND HAVEN, MICH., Front Range Light	93
GREEN BAY, WIS., River Mouth	222
HOLLAND, MICH., Front Range Light	87

Miles

INDIANA HARBOR, IND..... 53

KENOSHA, WIS., Breakwater Light..... 20

LUDINGTON, MICH., S. Breakwater Light 132

MANISTEE, MICH., Pierhead Light.....153

MANISTIQUE, MICH., Breakwater Light.261

MANITOWOC, WIS., Pierhead Light....126

MENOMINEE & MARINETTE, Pierhead Light 197

MICHIGAN CITY, IND., W. Pierhead Light 64

MILWAUKEE, WIS., Pierhead Range Light 52

MUSKEGON, MICH., Pierhead Front Range Light 96

OLD MACKINAC POINT.....296

PETOSKEY, MICH., Petoskey Light.....264

PORTE DES MORTS PASSAGE, Pilot Island Light 209

RACINE, WIS., Breakwater Light..... 31

Miles

ROCK ISLAND PASSAGE, Red Gas Buoy No. 2.....221

SHEBOYGAN, WIS., Breakwater Light.. 99

SOUTH CHICAGO, ILL., Pierhead Light. 49

SOUTH HAVEN, MICH., Pierhead Light. 78

STURGEON BAY CANAL, Pierhead Light 171

ST. JOSEPH, MICH., Pierhead Light.... 70

TRAVERSE CITY, MICH., Docks.....266

ALPENA, MICH.

Alpena Light

TO POINTS ON LAKE HURON

Miles

BAY CITY, MICH., M. C. Ry. Bridge....115

BYNG INLET, Front Range Light.....151

CHEBOYGAN, MICH., Crib Light.....100

COLLINGWOOD, ONT., Collingwood Light 185

DEPOT HARBOR, ONT.....170

DETOUR 89
via up bound course through Lake Huron. For down bound distance see reverse course.

FORT GRATIOT LIGHT.....158
via down bound course through Lake Huron. For up bound distance see reverse course.

Miles

GODERICH, ONT., N. Breakwater Front Range Light 125

HARBOR BEACH, MICH., North Main Light 96

KEY HARBOR, ONT.....154

LAKE HURON LIGHT-VESSEL.....156
via down bound course through Lake Huron. For up bound distance see reverse course.

LITTLE CURRENT, ONT..... 148

MIDLAND, ONT. 193

OLD MACKINAC POINT.....115

OWEN SOUND, ONT.....166

PARRY SOUND, ONT.....174

PENETANGUISHENE, ONT., Range Light 193

ROGERS CITY, MICH..... 63

BAY CITY, MICH.
M. C. Ry. Bridge

TO POINTS ON LAKE HURON

Miles

ALPENA, MICH., Alpena Light.....115

BYNG INLET, Front Range Light.....224

CHEBOYGAN, MICH., Crib Light.....192

COLLINGWOOD, ONT., Collingwood Light 258

DEPOT HARBOR, ONT.....243

DETOUR 181
via up bound course through Lake Huron. For down bound distance see reverse course.

FORT GRATIOT LIGHT.....160
via down bound course through Lake Huron. For up bound distance see reverse course.

Miles

GODERICH, ONT., N. Breakwater Front Range Light 134

HARBOR BEACH, MICH., North Main Light 98

KEY HARBOR, ONT.....227

LAKE HURON LIGHT-VESSEL.....158
via down bound course through Lake Huron. For up bound distance see reverse course.

LITTLE CURRENT, ONT.....221

MIDLAND, ONT. 266

OLD MACKINAC POINT.....207

OWEN SOUND, ONT.....239

PARRY SOUND, ONT.....247

PENETANGUISHENE, ONT., Range Light 266

ROGERS CITY, MICH.....156

BYNG INLET, ONT.

Front Range Light

TO POINTS ON LAKE HURON

Miles

ALPENA, MICH., Alpena Light.....151

BAY CITY, MICH., M. C. Ry. Bridge.....224

CHEBOYGAN, MICH., Crib Light.....197

COLLINGWOOD, ONT., Collingwood Light 92

DEPOT HARBOR, ONT..... 57

DETOUR 176
via Cove Island Light.

FORT GRATIOT LIGHT.....228

GODERICH, ONT., N. Breakwater Front Range Light 175

HARBOR BEACH, MICH., N. Main Light.176

	Miles
KEY HARBOR, ONT.	23
LAKE HURON LIGHT-VESSEL	226
LITTLE CURRENT, ONT.	66
MIDLAND, ONT.	93
OLD MACKINAC POINT	212
OWEN SOUND, ONT.	85
PARRY SOUND, ONT.	61
PENETANGUISHENE, ONT., Range Light	93
ROGERS CITY, MICH.	163

CHEBOYGAN, MICH.
Crib Light

TO POINTS ON LAKE HURON

	Miles
ALPENA, MICH., Alpena Light	100
BAY CITY, MICH., M. C. Ry. Bridge	192
BYNG INLET, Front Range Light	197
COLLINGWOOD, ONT., Collingwood Light	232
DEPOT HARBOR, ONT	216
DETOUR	35
FORT GRATIOT LIGHT via down bound course through Lake Huron. For up bound distance see reverse course.	233
GODERICH, ONT., N. Breakwater Front Range Light	197

Miles

HARBOR BEACH, MICH., N. Main Light 175
via down bound course through Lake Huron. For up bound distance see reverse course.

KEY HARBOR, ONT. 201

LAKE HURON LIGHT-VESSEL 231
via down bound course through Lake Huron. For up bound distance see reverse course.

LITTLE CURRENT, ONT. 133
via False Detour and North Channel.

MIDLAND, ONT. 239

OLD MACKINAC POINT 18

OWEN SOUND, ONT. 212

PARRY SOUND, ONT. 220

PENETANGUISHENE, ONT., Range Light 239

ROGERS CITY, MICH. 39

COLLINGWOOD, ONT.
Collingwood Light

TO POINTS ON LAKE HURON

	Miles
ALPENA, MICH., Alpena Light	185
BAY CITY, MICH., M. C. Ry. Bridge	258
BYNG INLET, Front Range Light	92
CHEBOYGAN, MICH., Crib Light	232
DEPOT HARBOR, ONT	77
DETOUR	210
FORT GRATIOT LIGHT	262
GODERICH, ONT., N. Breakwater Front Range Light	210
HARBOR BEACH, MICH., N. Main Light	210

Collingwood, Ont.—Cont.

	Miles
KEY HARBOR, ONT	105
LAKE HURON LIGHT-VESSEL	260
LITTLE CURRENT, ONT	137
MIDLAND, ONT.	54
OLD MACKINAC POINT	246
OWEN SOUND, ONT	48
PARRY SOUND, ONT	81
PENETANGUISHENE, ONT., Range Light	54
ROGERS CITY, MICH	198

DEPOT HARBOR, ONT.

TO POINTS ON LAKE HURON

	Miles
ALPENA, MICH., Alpena Light	170
BAY CITY, MICH., M. C. Ry. Bridge	243
BYNG INLET, Front Range Light	57
CHEBOYGAN, MICH., Crib Light	216
COLLINGWOOD, ONT., Collingwood Light	77
DETOUR	195
FORT GRATIOT LIGHT	247
GODERICH, ONT., N. Breakwater Front Range Light	194
HARBOR BEACH, MICH., N. Main Light	195

	Miles
KEY HARBOR, ONT.	70
LAKE HURON LIGHT-VESSEL	245
LITTLE CURRENT, ONT.	107
MIDLAND, ONT.	76
OLD MACKINAC POINT	231
OWEN SOUND, ONT.	77
PARRY SOUND, ONT.	6
PENETANGUISHENE, ONT., Range Light	76
ROGERS CITY, MICH.	183

TO PRINCIPAL POINTS ON LAKE SUPERIOR

Via up bound course through St. Marys River. For down bound distances see reverse courses.

	Miles
ASHLAND, WIS., Wharf Front	594

via up bound course through Lake Superior. For down bound distance see reverse course.

Miles

DULUTH, MINN., Piers.....639
via up bound course through Lake Superior. For down bound distance see reverse course.

FORT WILLIAM, ONT., Black Gas Buoy.519
via up bound course through Lake Superior. For down bound distance see reverse course.

HOUGHTON & HANCOCK, MICH.....467

JACKFISH, ONT. 454
via up bound course through Lake Superior. For down bound distance see reverse course.

MARQUETTE, MICH., Breakwater Light.404

PORT ARTHUR, ONT., Red Gas Buoy..520
via up bound course through Lake Superior. For down bound distance see reverse course.

SUPERIOR, WIS., Entry.....637
via up bound course through Lake Superior. For down bound distance see reverse course.

TWO HARBORS, MINN., Breakwater Light 615
via up bound course through Lake Superior. For down bound distance see reverse course.

WHITEFISH POINT 287

TO POINTS ON ST. MARYS RIVER

Miles

SOO LOCKS, American.....246
via up bound course through St. Marys River. For down bound distance see reverse course.

TO PRINCIPAL POINTS ON LAKE MICHIGAN

Miles

CHICAGO, ILL., Pierhead Range Light...555
Via northabout course through Lake Michigan 576

ESCANABA, MICH., West Light.....360
via northabout course and St. Martin Island Passage.

GARY, IND. 567
Via northabout course through Lake Michigan 588

GLADSTONE, MICH. 367
via northabout course and St. Martin Island Passage.

Miles

GREEN BAY, WIS., River Mouth.....428
via northabout course and Rock Island Passage.

MILWAUKEE, WIS., Pierhead Range Light 490

Via northabout course through Lake Michigan 507

OLD MACKINAC POINT.....231

PORTE DES MORTS PASSAGE, Pilot Island Light 355
via northabout course through Lake Michigan.

ROCK ISLAND PASSAGE, Red Gas Buoy No. 2.....337
via northabout course through Lake Michigan.

SHEBOYGAN, WIS., Breakwater Light..443

Via northabout course through Lake Michigan 457

SOUTH CHICAGO, ILL., Pierhead Light.564

Via northabout course through Lake Michigan 584

TO PRINCIPAL POINTS ON ST. CLAIR & DETROIT RIVERS

	Miles
AMHERSTBURG, ONT.	329
BAR POINT WEST CHANNEL GAS BUOY No. 1	338
DETROIT, MICH., Foot Woodward Ave.	311
MARINE CITY, MICH	269
PORT HURON, MICH. (Black River) & SARNIA, ONT.	250
WYANDOTTE, MICH.	321

TO PRINCIPAL POINTS ON LAKE ERIE

Via down bound course through Detroit River. For up bound distances see reverse courses.

	Miles
ASHTABULA, OHIO, Outer Entrance	463

Miles

BAR POINT WEST CHANNEL GAS BUOY No. 1.....338

BUFFALO, N. Y., Buffalo Light.....573

CLEVELAND, OHIO, E. Pier Light.....420

CONNEAUT, OHIO, Outer Entrance....476

ERIE, PA., Presque Isle Pierhead Light...504

FAIRPORT, OHIO, Outer Entrance.....438

HURON, OHIO, Huron Light.....390

LONG POINT 509

LORAIN, OHIO, West Pier Light.....403

PORT COLBORNE, ONT.....556

SANDUSKY, OHIO, E. End Dock Channel 383

TOLEDO, OHIO, Manhattan Front Range. Light 364

TO PRINCIPAL POINTS ON LAKE ONTARIO

Via down bound course through Detroit River. For up bound distances see reverse courses.

	Miles
ALEXANDRIA BAY, N. Y., Docks	773
CAPE VINCENT, N. Y., Breakwater Lights	746
CHARLOTTE, N. Y., Genesee Lights	678
OGDENSBURG, N. Y., Ogdensburg Light	806
OSWEGO, N. Y., Oswego Light	728
PORT DALHOUSIE, ONT., Front Range Light	584
PORT WELLER, ONT	584
TORONTO, ONT., Docks	615

DETOUR, MICH.

TO POINTS ON LAKE HURON

Miles

ALPENA, MICH., Alpena Light..... 91
via down bound course through Lake Huron. For up bound distance see reverse course.

BAY CITY, MICH., M. C. Ry. Bridge....183
via down bound course through Lake Huron. For up bound distance see reverse course.

BYNG INLET, Front Range Light.....176
via Cove Island Light.

CHEBOYGAN, MICH., Crib Light..... 35

COLLINGWOOD, ONT., Collingwood Light 210

DEPOT HARBOR, ONT.....195

FORT GRATIOT LIGHT.....221
via down bound course through Lake Huron. For up bound distance see reverse course.

Miles

GODERICH, ONT., N. Breakwater Front Range Light 186

HARBOR BEACH, MICH., North Main Light 163
via down bound course through Lake Huron. For up bound distance see reverse course.

KEY HARBOR, ONT.....179
via Cove Island Light.

LAKE HURON LIGHT-VESSEL.....219
via down bound course through Lake Huron. For up bound distance see reverse course.

LITTLE CURRENT, ONT..... 97
via False Detour and North Channel.

MIDLAND, ONT. 218

OLD MACKINAC POINT..... 42

OWEN SOUND, ONT.....191

PARRY SOUND, ONT.....199

PENETANGUISHENE, ONT., Range Light 218

ROGERS CITY, MICH..... 31

TO PRINCIPAL POINTS ON LAKE SUPERIOR

Via up bound course through St. Marys River. For down bound distances see reverse courses.

Miles

ASHLAND, WIS., Wharf Front.....399
via up bound course through Lake Superior. For down bound distance see reverse course.

DULUTH, MINN., Piers.....444
via up bound course through Lake Superior. For down bound distance see reverse course.

FORT WILLIAM, ONT., Black Gas Buoy.324
via up bound course through Lake Superior. For down bound distance see reverse course.

HOUGHTON & HANCOCK, MICH.....272

JACKFISH, ONT. 259
via up bound course through Lake Superior. For down bound distance see reverse course.

MARQUETTE, MICH., Breakwater Light.209

PORT ARTHUR, ONT., Red Gas Buoy..325
via up bound course through Lake Superior. For down bound distance see reverse course.

Miles

SUPERIOR, WIS., Entry.....442
via up bound course through Lake Superior. For down bound distance see reverse course.

TWO HARBORS, MINN., Breakwater Light 420
via up bound course through Lake Superior. For down bound distance see reverse course.

WHITEFISH POINT 92

TO POINTS ON ST. MARYS RIVER

Miles

SOO LOCKS, American..... 51
via up bound course through St. Marys River. For down bound distance see reverse course.

TO PRINCIPAL POINTS ON LAKE MICHIGAN

Miles

CHICAGO, ILL., Pierhead Range Light..366

Via northabout course through Lake Michigan 387

ESCANABA, MICH., West Light.....171
via northabout course and St. Martin Island Passage.

GARY, IND. 378

Via northabout course through Lake Michigan 399

GLADSTONE, MICH. 178
via northabout course and St. Martin Island Passage.

GREEN BAY, WIS., River Mouth.....239
via northabout course and Rock Island Passage.

MILWAUKEE, WIS., Pierhead Range Light 301

Via northabout course through Lake Michigan 318

OLD MACKINAC POINT..... 42

PORTE DES MORTS PASSAGE, Pilot Island Light 166
via northabout course through Lake Michigan.

Miles

ROCK ISLAND PASSAGE, Red Gas Buoy No. 2.....148
via northabout course through Lake Michigan.

SHEBOYGAN, WIS., Breakwater Light..254
Via northabout course through Lake Michigan 268

SOUTH CHICAGO, ILL., Pierhead Light.375
Via northabout course through Lake Michigan 395

TO PRINCIPAL POINTS ON ST. CLAIR & DETROIT RIVERS

Via down bound course through Lake Huron. For up bound distances see reverse courses.

Miles

AMHERSTBURG, ONT. 303

BAR POINT WEST CHANNEL GAS BUOY No. 1.....312

DETROIT, MICH., Foot Woodward Ave..285

	Miles
MARINE CITY, MICH	243
PORT HURON, MICH. (Black River) & SARNIA, ONT.	224
WYANDOTTE, MICH.	295

TO PRINCIPAL POINTS ON LAKE ERIE

Via down bound courses through Lake Huron and Detroit River. For up bound distances see reverse courses.

	Miles
ASHTABULA, OHIO, Outer Entrance	437
BAR POINT WEST CHANNEL GAS BUOY No. 1	312
BUFFALO, N. Y., Buffalo Light	547
CLEVELAND, OHIO, E. Pier Light	394
CONNEAUT, OHIO, Outer Entrance	450
ERIE, PA., Presque Isle Pierhead Light	478

Miles

FAIRPORT, OHIO, Outer Entrance.....412

HURON, OHIO, Huron Light.....364

LONG POINT 483

LORAIN, OHIO, West Pier Light.....377

PORT COLBORNE, ONT.....530

SANDUSKY, OHIO, E. End Dock Channel 357

TOLEDO, OHIO, Manhattan Front Range Light 338

TO PRINCIPAL POINTS ON LAKE ONTARIO

Via down bound courses through Lake Huron and Detroit River. For up bound distances see reverse courses.

Miles

ALEXANDRIA BAY, N. Y., Docks.....747

CAPE VINCENT, N. Y., Breakwater Lights 720

CHARLOTTE, N. Y., Genesee Lights.....652

Miles

OGDENSBURG, N. Y., Ogdensburg Light 780

OSWEGO, N. Y., Oswego Light 702

PORT DALHOUSIE, ONT., Front Range Light 558

PORT WELLER, ONT 558

TORONTO, ONT., Docks 589

FORT GRATIOT LIGHT

TO POINTS ON LAKE HURON

Miles

ALPENA, MICH., Alpena Light.....154
via up bound course through Lake Huron. For down bound distance see reverse course.

BAY CITY, MICH., M. C. Ry. Bridge.....156
via up bound course through Lake Huron. For down bound distance see reverse course.

BYNG INLET, Front Range Light.....228

CHEBOYGAN, MICH., Crib Light.....230
via up bound course through Lake Huron. For down bound distance see reverse ccurse.

COLLINGWOOD, ONT., Collingwood Light 262

DEPOT HARBOR, ONT.....247

Miles

DETOUR 218
via up bound course through Lake Huron. For down bound distance see reverse course.

GODERICH, ONT., N. Breakwater Front Range Light 62

HARBOR BEACH, MICH., North Main Light 62

KEY HARBOR, ONT 231

LAKE HURON LIGHT-VESSEL 2

LITTLE CURRENT, ONT 225

MIDLAND, ONT. 270

OLD MACKINAC POINT 244
via up bound course through Lake Huron. For down bound distance see reverse course.

OWEN SOUND, ONT 243

PARRY SOUND, ONT 251

PENETANGUISHENE, ONT., Range Light 270

ROGERS CITY, MICH 192
via up bound course through Lake Huron. For down bound distance see reverse course.

TO PRINCIPAL POINTS ON LAKE SUPERIOR

Via up bound courses through Lake Huron and St. Marys River. For down bound distances see reverse courses.

Miles

ASHLAND, WIS., Wharf Front.....617
via up bound course through Lake Superior. For down bound distance see reverse course.

DULUTH, MINN., Piers.....662
via up bound course through Lake Superior. For down bound distance see reverse course.

FORT WILLIAM, ONT., Black Gas Buoy.542
via up bound course through Lake Superior. For down bound distance see reverse course.

HOUGHTON & HANCOCK, MICH.....490

JACKFISH, ONT. 477
via up bound course through Lake Superior. For down bound distance see reverse course.

MARQUETTE, MICH., Breakwater Light.427

PORT ARTHUR, ONT., Red Gas Buoy..543
via up bound course through Lake Superior. For down bound distance see reverse course.

Miles

SUPERIOR, WIS., Entry.....660
via up bound course through Lake Superior. For down bound distance see reverse course.

TWO HARBORS, MINN., Breakwater Light 638
via up bound course through Lake Superior. For down bound distance see reverse course.

WHITEFISH POINT 310

TO POINTS ON ST. MARYS RIVER

Miles

SOO LOCKS, American.....269
via up bound courses through Lake Huron and St. Marys River. For down bound distance see reverse course.

TO PRINCIPAL POINTS ON LAKE MICHIGAN

Via up bound course through Lake Huron. For down bound distances see reverse courses.

Miles

CHICAGO, ILL., Pierhead Range Light..568

Via northabout course through Lake Michigan 589

ESCANABA, MICH., West Light.....373
via northabout course and St. Martin Island Passage.

GARY, IND. 580

Via northabout course through Lake Michigan 601

GLADSTONE, MICH. 380
via northabout course and St. Martin Island Passage.

GREEN BAY, WIS., River Mouth.....441
via northabout course and Rock Island Passage.

MILWAUKEE, WIS., Pierhead Range Light 503

Via northabout course through Lake Michigan 520

OLD MACKINAC POINT.....244

Miles

PORTE DES MORTS PASSAGE, Pilot Island Light 368
via northabout course through Lake Michigan.

ROCK ISLAND PASSAGE, Red Gas Buoy No. 2.....350
via northabout course through Lake Michigan.

SHEBOYGAN, WIS., Breakwater Light..456
Via northabout course through Lake Michigan 470

SOUTH CHICAGO, ILL., Pierhead Light.577
Via northabout course through Lake Michigan 597

TO PRINCIPAL POINTS ON ST. CLAIR & DETROIT RIVERS

Miles

AMHERSTBURG, ONT. 82

BAR POINT WEST CHANNEL GAS BUOY No. 1..... 91

DETROIT, MICH., Foot Woodward Ave.. 64

	Miles
MARINE CITY, MICH.	22
PORT HURON, MICH. (Black River) & SARNIA, ONT.	3
WYANDOTTE, MICH.	74

TO PRINCIPAL POINTS ON LAKE ERIE

Via down bound course through Detroit River. For up bound distances see reverse courses.

	Miles
ASHTABULA, OHIO, Outer Entrance	216
BAR POINT WEST CHANNEL GAS BUOY No. 1	91
BUFFALO, N. Y., Buffalo Light	326
CLEVELAND, OHIO, E. Pier Light	173
CONNEAUT, OHIO, Outer Entrance	229
ERIE, PA., Presque Isle Pierhead Light	257
FAIRPORT, OHIO, Outer Entrance	191

	Miles
HURON, OHIO, Huron Light	143
LONG POINT	262
LORAIN, OHIO, West Pier Light	156
PORT COLBORNE, ONT	309
SANDUSKY, OHIO, E. End Dock Channel	136
TOLEDO, OHIO, Manhattan Front Range Light	117

TO PRINCIPAL POINTS ON LAKE ONTARIO

Via down bound course through Detroit River. For up bound distances see reverse courses.

	Miles
ALEXANDRIA BAY, N. Y., Docks	526
CAPE VINCENT, N. Y., Breakwater Lights	499
CHARLOTTE, N. Y., Genesee Lights	431

Miles

OGDENSBURG, N. Y., Ogdensburg Light 559

OSWEGO, N. Y., Oswego Light 481

PORT DALHOUSIE, ONT., Front Range Light 337

PORT WELLER, ONT. 337

TORONTO, ONT., Docks 368

GODERICH, ONT.

N. Breakwater Front Range Light

TO POINTS ON LAKE HURON

	Miles
ALPENA, MICH., Alpena Light	125
BAY CITY, MICH., M. C. Ry. Bridge	134
BYNG INLET, Front Range Light	175
CHEBOYGAN, MICH., Crib Light	197
COLLINGWOOD, ONT., Collingwood Light	210
DEPOT HARBOR, ONT	194
DETOUR	186
FORT GRATIOT LIGHT	62
HARBOR BEACH, MICH., S. Main Light	46
KEY HARBOR, ONT	179

Goderich, Ont.—Cont.

	Miles
LAKE HURON LIGHT-VESSEL	60
LITTLE CURRENT, ONT	172
MIDLAND, ONT.	217
OLD MACKINAC POINT	212
OWEN SOUND, ONT	190
PARRY SOUND, ONT	198
PENETANGUISHENE, ONT., Range Light	217
ROGERS CITY, MICH	160

HARBOR BEACH, MICH.
N. Main Light

TO POINTS ON LAKE HURON

Miles

ALPENA, MICH., Alpena Light..... 96

BAY CITY, MICH., M. C. Ry. Bridge..... 98

BYNG INLET, Front Range Light.....176

CHEBOYGAN, MICH., Crib Light.....172
via up bound course through Lake Huron. For down bound distance see reverse course.

COLLINGWOOD, ONT., Collingwood Light 210

DEPOT HARBOR, ONT.....195

DETOUR 160
via up bound course through Lake Huron. For down bound distance see reverse course.

Miles

FORT GRATIOT LIGHT..... 62

GODERICH, ONT., N. Breakwater Front Range Light 46

KEY HARBOR, ONT.....179

LAKE HURON LIGHT-VESSEL..... 60

LITTLE CURRENT, ONT.....173

MIDLAND, ONT. 218

OLD MACKINAC POINT.....186
via up bound course through Lake Huron. For down bound distance see reverse course.

OWEN SOUND, ONT.....191

PARRY SOUND, ONT.....199

PENETANGUISHENE, ONT., Range Light 218

ROGERS CITY, MICH.....134
via up bound course through Lake Huron. For down bound distance see reverse course.

TO PRINCIPAL POINTS ON LAKE SUPERIOR

Via up bound courses through Lake Huron and St. Marys River. For down bound distances see reverse courses.

Miles

ASHLAND, WIS., Wharf Front.....559
via up bound course through Lake Superior. For down bound distance see reverse course.

DULUTH, MINN., Piers.....604
via up bound course through Lake Superior. For down bound distance see reverse course.

FORT WILLIAM, ONT., Black Gas Buoy.484
via up bound course through Lake Superior. For down bound distance see reverse course.

HOUGHTON & HANCOCK, MICH.....432

JACKFISH, ONT. 419
via up bound course through Lake Superior. For down bound distance see reverse course.

MARQUETTE, MICH., Breakwater Light.369

PORT ARTHUR, ONT., Red Gas Buoy..485
via up bound course through Lake Superior. For down bound distance see reverse course.

Miles

SUPERIOR, WIS., Entry.....602
via up bound course through Lake Superior. For down bound distance see reverse course.

TWO HARBORS, MINN., Breakwater Light.....580
via up bound course through Lake Superior. For down bound distance see reverse course.

WHITEFISH POINT.....252

TO POINTS ON ST. MARYS RIVER

Miles

SOO LOCKS, American.....211
via up bound courses through Lake Huron and St. Marys River. For down bound distance see reverse course.

TO PRINCIPAL POINTS ON LAKE MICHIGAN

Via up bound course through Lake Huron. For down bound distances see reverse courses.

Miles

CHICAGO, ILL., Pierhead Range Light..510

Via northabout course through Lake Michigan 531

ESCANABA, MICH., West Light.....315
via northabout course and St. Martin Island Passage.

GARY, IND. 522

Via northabout course through Lake Michigan 543

GLADSTONE, MICH. 322
via northabout course and St. Martin Island Passage.

GREEN BAY, WIS., River Mouth.....383
via northabout course and Rock Island Passage.

MILWAUKEE, WIS., Pierhead Range Light 445

Via northabout course through Lake Michigan 462

OLD MACKINAC POINT.....186

Miles

PORTE DES MORTS PASSAGE, Pilot Island Light 310
via northabout course through Lake Michigan.

ROCK ISLAND PASSAGE, Red Gas Buoy No. 2.....292
via northabout course through Lake Michigan.

SHEBOYGAN, WIS., Breakwater Light..398
Via northabout course through Lake Michigan 412

SOUTH CHICAGO, ILL., Pierhead Light.519
Via northabout course through Lake Michigan 539

TO PRINCIPAL POINTS ON ST. CLAIR & DETROIT RIVERS

Miles

AMHERSTBURG, ONT. 144

BAR POINT WEST CHANNEL GAS BUOY No. 1.....153

DETROIT, MICH., Foot Woodward Ave..126

	Miles
MARINE CITY, MICH	84
PORT HURON, MICH. (Black River) & SARNIA, ONT.	65
WYANDOTTE, MICH.	136

TO PRINCIPAL POINTS ON LAKE ERIE

Via down bound course through Detroit River. For up bound distances see reverse courses.

	Miles
ASHTABULA, OHIO, Outer Entrance	278
BAR POINT WEST CHANNEL GAS BUOY No. 1	153
BUFFALO, N. Y., Buffalo Light	388
CLEVELAND, OHIO, E. Pier Light	235
CONNEAUT, OHIO, Outer Entrance	291
ERIE, PA., Presque Isle Pierhead Light	319
FAIRPORT, OHIO, Outer Entrance	253

	Miles
HURON, OHIO, Huron Light	205
LONG POINT	324
LORAIN, OHIO, West Pier Light	218
PORT COLBORNE, ONT	371
SANDUSKY, OHIO, E. End Dock Channel	198
TOLEDO, OHIO, Manhattan Front Range Light	179

TO PRINCIPAL POINTS ON LAKE ONTARIO

Via down bound course through Detroit River. For up bound distances see reverse courses.

	Miles
ALEXANDRIA BAY, N. Y., Docks	588
CAPE VINCENT, N. Y., Breakwater Lights	561
CHARLOTTE, N. Y., Genesee Lights	493

Miles

OGDENSBURG, N. Y., Ogdensburg Light 621

OSWEGO, N. Y., Oswego Light 543

PORT DALHOUSIE, ONT., Front Range Light 399

PORT WELLER, ONT 399

TORONTO, ONT., Docks 430

KEY HARBOR, ONT.

TO POINTS ON LAKE HURON

Miles

ALPENA, MICH., Alpena Light.....154

BAY CITY, MICH., M. C. Ry. Bridge.....227

BYNG INLET, Front Range Light..... 23

CHEBOYGAN, MICH., Crib Light.....201

COLLINGWOOD, ONT., Collingwood Light 105

DEPOT HARBOR, ONT..... 70

DETOUR 179
via Cove Island Light.

FORT GRATIOT LIGHT.....231

GODERICH, ONT., N. Breakwater Front Range Light 179

HARBOR BEACH, MICH., N. Main Light.179

Miles

LAKE HURON LIGHT-VESSEL.....229

LITTLE CURRENT, ONT..... 61

MIDLAND, ONT. 105

OLD MACKINAC POINT.....215

OWEN SOUND, ONT..... 97

PARRY SOUND, ONT..... 74

PENETANGUISHENE, ONT., Range Light 105

ROGERS CITY, MICH.....167

LAKE HURON LIGHT-VESSEL

TO POINTS ON LAKE HURON

Miles

ALPENA, MICH., Alpena Light.....152
via up bound course through Lake Huron. For down bound distance see reverse course.

BAY CITY, MICH., M. C. Ry. Bridge....154
via up bound course through Lake Huron. For down bound distance see reverse course.

BYNG INLET, Front Range Light.....226

CHEBOYGAN, MICH., Crib Light.....228
via up bound course through Lake Huron. For down bound distance see reverse course.

COLLINGWOOD, ONT., Collingwood Light 260

DEPOT HARBOR, ONT.....245

Miles

DETOUR 216
via up bound course through Lake Huron. For down bound distance see reverse course.

FORT GRATIOT LIGHT..... 2

GODERICH, ONT., N. Breakwater Front Range Light 60

HARBOR BEACH, MICH., N. Main Light 60

KEY HARBOR, ONT..... 229

LITTLE CURRENT, ONT..... 223

MIDLAND, ONT. 268

OLD MACKINAC POINT..... 242
via up bound course through Lake Huron. For down bound distance see reverse course.

OWEN SOUND, ONT..... 241

PARRY SOUND, ONT..... 249

PENETANGUISHENE, ONT., Range Light 268

ROGERS CITY, MICH..... 190
via up bound course through Lake Huron. For down bound distance see reverse course.

LITTLE CURRENT, ONT.

TO POINTS ON LAKE HURON

Miles

ALPENA, MICH., Alpena Light.....148

BAY CITY, MICH., M. C. Ry. Bridge....221

BYNG INLET, Front Range Light..... 66

CHEBOYGAN, MICH., Crib Light.....133
via North and False Detour channels.

COLLINGWOOD, ONT., Collingwood Light 137

DEPOT HARBOR, ONT.....107

DETOUR 97
via North and False Detour channels.

FORT GRATIOT LIGHT.....225

GODERICH, ONT., N. Breakwater Front Range Light 172

Miles

HARBOR BEACH, MICH., N. Main Light.173

KEY HARBOR, ONT..... 61

LAKE HURON LIGHT-VESSEL.....223

MIDLAND, ONT. 140

OLD MACKINAC POINT.....143
via North and False Detour channels.

OWEN SOUND, ONT.....120

PARRY SOUND, ONT.....111

PENETANGUISHENE, ONT., Range Light 140

ROGERS CITY, MICH.....119
via North and False Detour channels.

MIDLAND, ONT.

TO POINTS ON LAKE HURON

	Miles
ALPENA, MICH., Alpena Light	193
BAY CITY, MICH., M. C. Ry. Bridge	266
BYNG INLET, Front Range Light	93
CHEBOYGAN, MICH., Crib Light	239
COLLINGWOOD, ONT., Collingwood Light	54
DEPOT HARBOR, ONT	76
DETOUR	218
FORT GRATIOT LIGHT	270
GODERICH, ONT., N. Breakwater Front Range Light	217
HARBOR BEACH, MICH., N. Main Light	218

	Miles
KEY HARBOR, ONT	105
LAKE HURON LIGHT-VESSEL	268
LITTLE CURRENT, ONT	140
OLD MACKINAC POINT	254
OWEN SOUND, ONT	70
PARRY SOUND, ONT	80
PENETANGUISHENE, ONT., Range Light	11
ROGERS CITY, MICH	205

OWEN SOUND, ONT.

TO POINTS ON LAKE HURON

	Miles
ALPENA, MICH., Alpena Light	166
BAY CITY, MICH., M. C. Ry. Bridge	239
BYNG INLET, Front Range Light	85
CHEBOYGAN, MICH., Crib Light	212
COLLINGWOOD, ONT., Collingwood Light	48
DEPOT HARBOR, ONT	77
DETOUR	191
FORT GRATIOT LIGHT	243
GODERICH, ONT., N. Breakwater Front Range Light	190
HARBOR BEACH, MICH., N. Main Light	191

	Miles
KEY HARBOR, ONT.	97
LAKE HURON LIGHT-VESSEL	241
LITTLE CURRENT, ONT.	120
MIDLAND, ONT.	70
OLD MACKINAC POINT	227
PARRY SOUND, ONT.	81
PENETANGUISHENE, ONT., Range Light	70
ROGERS CITY, MICH.	179

TO PRINCIPAL POINTS ON LAKE SUPERIOR

Via up bound course through St. Marys River. For down bound distances see reverse courses.

	Miles
ASHLAND, WIS., Wharf Front	590

via up bound course through Lake Superior. For down bound distance see reverse course.

Miles

DULUTH, MINN., Piers.....635
via up bound course through Lake Superior. For down bound distance see reverse course.

FORT WILLIAM, ONT., Black Gas Buoy.515
via up bound course through Lake Superior. For down bound distance see reverse course.

HOUGHTON & HANCOCK, MICH.....463

JACKFISH, ONT. 450
via up bound course through Lake Superior. For down bound distance see reverse course.

MARQUETTE, MICH., Breakwater Light.400

PORT ARTHUR, ONT., Red Gas Buoy..516
via up bound course through Lake Superior. For down bound distance see reverse course.

SUPERIOR, WIS., Entry.....633
via up bound course through Lake Superior. For down bound distance see reverse course.

TWO HARBORS, MINN., Breakwater Light 611
via up bound course through Lake Superior. For down bound distance see reverse course.

WHITEFISH POINT 283

TO POINTS ON ST. MARYS RIVER

Miles

SOO LOCKS, American.....242
via up bound course through St. Marys River. For down bound distance see reverse course.

TO PRINCIPAL POINTS ON LAKE MICHIGAN

Miles

CHICAGO, ILL., Pierhead Range Light..551
Via northabout course through Lake Michigan 572

ESCANABA, MICH., West Light.....356
via northabout course and St. Martin Island Passage.

GARY, IND. 563
Via northabout course through Lake Michigan 584

GLADSTONE, MICH. 363
via northabout course and St. Martin Island Passage.

Miles

GREEN BAY, WIS., River Mouth.....424
via northabout course and Rock Island Passage.

MILWAUKEE, WIS., Pierhead Range Light 486

Via northabout course through Lake Michigan 503

OLD MACKINAC POINT.....227

PORTE DES MORTS PASSAGE, Pilot Island Light 351
via northabout course through Lake Michigan.

ROCK ISLAND PASSAGE, Red Gas Buoy No. 2.....333
via northabout course through Lake Michigan.

SHEBOYGAN, WIS., Breakwater Light..439

Via northabout course through Lake Michigan 453

SOUTH CHICAGO, ILL., Pierhead Light.560

Via northabout course through Lake Michigan 580

TO PRINCIPAL POINTS ON ST. CLAIR & DETROIT RIVERS

	Miles
AMHERSTBURG, ONT.	325
BAR POINT WEST CHANNEL GAS BUOY No. 1	334
DETROIT, MICH., Foot Woodward Ave.	307
MARINE CITY, MICH.	265
PORT HURON, MICH. (Black River) & SARNIA, ONT.	246
WYANDOTTE, MICH.	317

TO PRINCIPAL POINTS ON LAKE ERIE

Via down bound course through Detroit River. For up bound distances see reverse courses.

	Miles
ASHTABULA, OHIO, Outer Entrance	459

Miles

BAR POINT WEST CHANNEL GAS BUOY No. 1.....334

BUFFALO, N. Y., Buffalo Light.....569

CLEVELAND, OHIO, E. Pier Light.....416

CONNEAUT, OHIO, Outer Entrance....472

ERIE, PA., Presque Isle Pierhead Light...500

FAIRPORT, OHIO, Outer Entrance.....434

HURON, OHIO, Huron Light.....386

LONG POINT 505

LORAIN, OHIO, West Pier Light.....399

PORT COLBORNE, ONT.....552

SANDUSKY, OHIO, E. End Dock Channel 379

TOLEDO, OHIO, Manhattan Front Range Light 360

TO PRINCIPAL POINTS ON LAKE ONTARIO

Via down bound course through Detroit River. For up bound distances see reverse courses.

	Miles
ALEXANDRIA BAY, N. Y., Docks	769
CAPE VINCENT, N. Y., Breakwater Lights	742
CHARLOTTE, N. Y., Genesee Lights	674
OGDENSBURG, N. Y., Ogdensburg Light	802
OSWEGO, N. Y., Oswego Light	724
PORT DALHOUSIE, ONT., Front Range Light	580
PORT WELLER, ONT	580
TORONTO, ONT., Docks	611

PARRY SOUND, ONT.

TO POINTS ON LAKE HURON

	Miles
ALPENA, MICH., Alpena Light	174
BAY CITY, MICH., M. C. Ry. Bridge	247
BYNG INLET, Front Range Light	61
CHEBOYGAN, MICH., Crib Light	220
COLLINGWOOD, ONT., Collingwood Light	81
DEPOT HARBOR, ONT	6
DETOUR	199
FORT GRATIOT LIGHT	251
GODERICH, ONT., N. Breakwater Front Range Light	198
HARBOR BEACH, MICH., N. Main Light	199

	Miles
KEY HARBOR, ONT	74
LAKE HURON LIGHT-VESSEL	249
LITTLE CURRENT, ONT	111
MIDLAND, ONT.	80
OLD MACKINAC POINT	235
OWEN SOUND, ONT	81
PENETANGUISHENE, ONT., Range Light	80
ROGERS CITY, MICH	187

TO PRINCIPAL POINTS ON LAKE SUPERIOR

Via up bound course through St. Marys River. For down bound distances see reverse courses.

	Miles
ASHLAND, WIS., Wharf Front	598

via up bound course through Lake Superior. For down bound distance see reverse course.

Miles

DULUTH, MINN., Piers.....643
via up bound course through Lake Superior. For down bound distance see reverse course.

FORT WILLIAM, ONT., Black Gas Buoy.523
via up bound course through Lake Superior. For down bound distance see reverse course.

HOUGHTON & HANCOCK, MICH.....471

JACKFISH, ONT. 458
via up bound course through Lake Superior. For down bound distance see reverse course.

MARQUETTE, MICH., Breakwater Light.408

PORT ARTHUR, ONT., Red Gas Buoy..524
via up bound course through Lake Superior. For down bound distance see reverse course.

SUPERIOR, WIS., Entry.....641
via up bound course through Lake Superior. For down bound distance see reverse course.

TWO HARBORS, MINN., Breakwater Light 619
via up bound course through Lake Superior. For down bound distance see reverse course.

WHITEFISH POINT 291

TO POINTS ON ST. MARYS RIVER

Miles

SOO LOCKS, American.....250
via up bound course through St. Marys River. For down bound distance see reverse course.

TO PRINCIPAL POINTS ON LAKE MICHIGAN

Miles

CHICAGO, ILL., Pierhead Range Light..559
Via northabout course through Lake Michigan 580

ESCANABA, MICH., West Light.....364
via northabout course and St. Martin Island Passage.

GARY, IND. 571
Via northabout course through Lake Michigan 592

GLADSTONE, MICH. 371
via northabout course and St. Martin Island Passage.

Miles

GREEN BAY, WIS., River Mouth.....432
via northabout course and Rock Island Passage.

MILWAUKEE, WIS., Pierhead Range Light 494

Via northabout course through Lake Michigan 511

OLD MACKINAC POINT.....235

PORTE DES MORTS PASSAGE, Pilot Island Light 359
via northabout course through Lake Michigan.

ROCK ISLAND PASSAGE, Red Gas Buoy No. 2.....341
via northabout course through Lake Michigan.

SHEBOYGAN, WIS., Breakwater Light..447

Via northabout course through Lake Michigan 461

SOUTH CHICAGO, ILL., Pierhead Light.568

Via northabout course through Lake Michigan 588

TO PRINCIPAL POINTS ON ST. CLAIR & DETROIT RIVERS

	Miles
AMHERSTBURG, ONT.	333
BAR POINT WEST CHANNEL GAS BUOY No. 1	342
DETROIT, MICH., Foot Woodward Ave.	315
MARINE CITY, MICH	273
PORT HURON, MICH. (Black River) & SARNIA, ONT.	254
WYANDOTTE, MICH.	325

TO PRINCIPAL POINTS ON LAKE ERIE

Via down bound course through Detroit river. For up bound distances see reverse courses.

	Miles
ASHTABULA, OHIO, Outer Entrance	467

Miles

BAR POINT WEST CHANNEL GAS BUOY No. 1.....342

BUFFALO, N. Y., Buffalo Light.....577

CLEVELAND, OHIO, E. Pier Light.....424

CONNEAUT, OHIO, Outer Entrance....480

ERIE, PA., Presque Isle Pierhead Light...508

FAIRPORT, OHIO, Outer Entrance.....442

HURON, OHIO, Huron Light.....394

LONG POINT 513

LORAIN, OHIO, West Pier Light.....407

PORT COLBORNE, ONT.....560

SANDUSKY, OHIO, E. End Dock Channel 387

TOLEDO, OHIO, Manhattan Front Range Light 368

TO PRINCIPAL POINTS ON LAKE ONTARIO

Via down bound course through Detroit River. For up bound distances see reverse courses.

	Miles
ALEXANDRIA BAY, N. Y., Docks	777
CAPE VINCENT, N. Y., Breakwater Lights	750
CHARLOTTE, N. Y., Genesee Lights	682
OGDENSBURG, N. Y., Ogdensburg Light	810
OSWEGO, N. Y., Oswego Light	732
PORT DALHOUSIE, ONT., Front Range Light	588
PORT WELLER, ONT	588
TORONTO, ONT., Docks	619

PENETANGUISHENE, ONT.
Range Light

TO POINTS ON LAKE HURON

	Miles
ALPENA, MICH., Alpena Light	193
BAY CITY, MICH., M. C. Ry. Bridge	266
BYNG INLET, Front Range Light	93
CHEBOYGAN, MICH., Crib Light	239
COLLINGWOOD, ONT., Collingwood Light	54
DEPOT HARBOR, ONT	76
DETOUR	218
FORT GRATIOT LIGHT	270
GODERICH, ONT., N. Breakwater Front Range Light	217

	Miles
HARBOR BEACH, MICH., N. Main Light	218
KEY HARBOR, ONT	105
LAKE HURON LIGHT-VESSEL	268
LITTLE CURRENT, ONT	140
MIDLAND, ONT.	11
OLD MACKINAC POINT	254
OWEN SOUND, ONT	70
PARRY SOUND, ONT	80
ROGERS CITY, MICH	205

ROGERS CITY, MICH.

TO POINTS ON LAKE HURON

Miles

ALPENA, MICH., Alpena Light..... 63

BAY CITY, MICH., M. C. Ry. Bridge....156

BYNG INLET, Front Range Light.....163

CHEBOYGAN, MICH., Crib Light..... 39

COLLINGWOOD, ONT., Collingwood Light 198

DEPOT HARBOR, ONT.....183

DETOUR 31

FORT GRATIOT LIGHT.....199
via down bound course through Lake Huron. For up bound distance see reverse course.

GODERICH, ONT., N. Breakwater Front Range Light 160

Miles

HARBOR BEACH, MICH., N. Main Light.142
via down bound course through Lake Huron. For up bound distance see reverse course.

KEY HARBOR, ONT.....167

LAKE HURON LIGHT-VESSEL.....197
via down bound course through Lake Huron. For up bound distance see reverse course.

LITTLE CURRENT, ONT.....119
via False Detour and North channels.

MIDLAND, ONT. 205

OLD MACKINAC POINT..... 54

OWEN SOUND, ONT.....179

PARRY SOUND, ONT.....187

PENETANGUISHENE, ONT., Range Light 205

TO PRINCIPAL POINTS ON LAKE SUPERIOR

Via up bound course through St. Marys River. For down bound distances see reverse courses.

Miles

ASHLAND, WIS., Wharf Front.....430
via up bound course through Lake Superior. For down bound distance see reverse course.

DULUTH, MINN., Piers.....475
via up bound course through Lake Superior. For down bound distance see reverse course.

FORT WILLIAM, ONT., Black Gas Buoy.355
via up bound course through Lake Superior. For down bound distance see reverse course.

HOUGHTON & HANCOCK, MICH.....303

JACKFISH, ONT. 290
via up bound course through Lake Superior. For down bound distance see reverse course.

MARQUETTE, MICH., Breakwater Light.240

PORT ARTHUR, ONT., Red Gas Buoy..356
via up bound course through Lake Superior. For down bound distance see reverse course.

Miles

SUPERIOR, WIS., Entry.....473
via up bound course through Lake Superior. For down bound distance see reverse course.

TWO HARBORS, MINN., Breakwater Light 451
via up bound course through Lake Superior. For down bound distance see reverse course.

WHITEFISH POINT 123

TO POINTS ON ST. MARYS RIVER

Miles

SOO LOCKS, American..... 82
via up bound course through St. Marys River. For down bound distance see reverse course.

TO PRINCIPAL POINTS ON LAKE MICHIGAN

Miles

CHICAGO, ILL., Pierhead Range Light..378
Via northabout course through Lake Michigan 399

Miles

ESCANABA, MICH., West Light.....183
via northabout course and St. Martin Island Passage.

GARY, IND. 390
Via northabout course through Lake Michigan 411

GLADSTONE, MICH. 190
via northabout course and St. Martin Island Passage.

GREEN BAY, WIS., River Mouth.....251
via northabout course and Rock Island Passage.

MILWAUKEE, WIS., Pierhead Range Light 313
Via northabout course through Lake Michigan 330

OLD MACKINAC POINT..... 54

PORTE DES MORTS PASSAGE, Pilot Island Light 178
via northabout course through Lake Michigan.

ROCK ISLAND PASSAGE, Red Gas Buoy No. 2.....160
via northabout course through Lake Michigan.

SHEBOYGAN, WIS., Breakwater Light...266
Via northabout course through Lake Michigan 280

Miles

SOUTH CHICAGO, ILL., Pierhead Light.387

Via northabout course through Lake Michigan 407

TO PRINCIPAL POINTS ON ST. CLAIR & DETROIT RIVERS

Via down bound course through Lake Huron. For up bound distances see reverse courses.

Miles

AMHERSTBURG, ONT. 281

BAR POINT WEST CHANNEL GAS BUOY No. 1.....290

DETROIT, MICH., Foot Woodward Ave..263

MARINE CITY, MICH.....221

PORT HURON, MICH. (Black River) & SARNIA, ONT. 202

WYANDOTTE, MICH. 273

TO PRINCIPAL POINTS ON LAKE ERIE

Via down bound courses through Lake Huron and Detroit River. For up bound distances see reverse courses.

	Miles
ASHTABULA, OHIO, Outer Entrance	415
BAR POINT WEST CHANNEL GAS BUOY No. 1	290
BUFFALO, N. Y., Buffalo Light	525
CLEVELAND, OHIO, E. Pier Light	372
CONNEAUT, OHIO, Outer Entrance	428
ERIE, PA., Presque Isle Pierhead Light	456
FAIRPORT, OHIO, Outer Entrance	390
HURON, OHIO, Huron Light	342
LONG POINT	361
LORAIN, OHIO, West Pier Light	355
PORT COLBORNE, ONT	508
SANDUSKY, OHIO, E. End Dock Channel	335

Miles

TOLEDO, OHIO, Manhattan Front Range Light 316

TO PRINCIPAL POINTS ON LAKE ONTARIO

Via down bound courses through Lake Huron and Detroit River. For up bound distances see reverse courses.

Miles

ALEXANDRIA BAY, N. Y., Docks 725

CAPE VINCENT, N. Y., Breakwater Lights 698

CHARLOTTE, N. Y., Genesee Lights 630

OGDENSBURG, N. Y., Ogdensburg Light 758

OSWEGO, N. Y., Oswego Light 680

PORT DALHOUSIE, ONT., Front Range Light 536

PORT WELLER, ONT 536

TORONTO, ONT., Docks 567

AMHERSTBURG, ONT.

TO PRINCIPAL POINTS ON ST. CLAIR & DETROIT RIVERS

	Miles
BAR POINT WEST CHANNEL GAS BUOY No. 1	9
DETROIT, MICH., Foot Woodward Ave.	18
MARINE CITY, MICH	60
PORT HURON, MICH. (Black River) & SARNIA, ONT.	79
WYANDOTTE, MICH.	8

DETROIT, MICH.

Foot Woodward Ave.

TO PRINCIPAL POINTS ON ST. CLAIR & DETROIT RIVERS

	Miles
AMHERSTBURG, ONT.	18
BAR POINT WEST CHANNEL GAS BUOY No. 1	27
MARINE CITY, MICH	43
PORT HURON, MICH. (Black River) & SARNIA, ONT.	62
WYANDOTTE, MICH.	10

TO PRINCIPAL POINTS ON LAKE SUPERIOR

Via up bound courses through Lake Huron and St. Marys River. For down bound distances see reverse courses.

Miles

ASHLAND, WIS., Wharf Front.....681
via up bound course through Lake Superior. For down bound distance see reverse course.

DULUTH, MINN., Piers.....726
via up bound course through Lake Superior. For down bound distance see reverse course.

FORT WILLIAM, ONT., Black Gas Buoy.606
via up bound course through Lake Superior. For down bound distance see reverse course.

HOUGHTON & HANCOCK, MICH.....554

JACKFISH, ONT. 541
via up bound course through Lake Superior. For down bound distance see reverse course.

MARQUETTE, MICH., Breakwater Light.491

PORT ARTHUR, ONT., Red Gas Buoy...607
via up bound course through Lake Superior. For down bound distance see reverse course.

Miles

SUPERIOR, WIS., Entry.....724
via up bound course through Lake Superior. For down bound distance see reverse course.

TWO HARBORS, MINN., Breakwater Light 702
via up bound course through Lake Superior. For down bound distance see reverse course.

WHITEFISH POINT 374

TO POINTS ON ST. MARYS RIVER

Miles

SOO LOCKS, American.....333
via up bound courses through Lake Huron and St. Marys River. For down bound distance see reverse course.

TO PRINCIPAL POINTS ON LAKE MICHIGAN

Via up bound course through Lake Huron. For down bound distances see reverse courses.

Miles

CHICAGO, ILL., Pierhead Range Light..632

Via northabout course through Lake Michigan 653

ESCANABA, MICH., West Light.....437
via northabout course and St. Martin Island Passage.

GARY, IND. 644

Via northabout course through Lake Michigan 665

GLADSTONE, MICH. 444
via northabout course and St. Martin Island Passage.

GREEN BAY, WIS., River Mouth.....505
via northabout course and Rock Island Passage.

MILWAUKEE, WIS., Pierhead Range Light 567

Via northabout course through Lake Michigan 584

OLD MACKINAC POINT.....308

Miles

PORTE DES MORTS PASSAGE, Pilot Island Light 432
via northabout course through Lake Michigan.

ROCK ISLAND PASSAGE, Red Gas Buoy No. 2.....414
via northabout course through Lake Michigan.

SHEBOYGAN, WIS., Breakwater Light..520
Via northabout course through Lake Michigan 534

SOUTH CHICAGO, ILL., Pierhead Light.641
Via northabout course through Lake Michigan 661

TO PRINCIPAL POINTS ON LAKE HURON

Miles

DEPOT HARBOR, ONT.....311

DETOUR 282
via up bound course through Lake Huron. For down bound distance see reverse course.

Miles

FORT GRATIOT LIGHT..... 64

HARBOR BEACH, MICH., North Main Light 126

OLD MACKINAC POINT.....308
via up bound course through Lake Huron. For down bound distance see reverse course.

OWEN SOUND, ONT.....307

PARRY SOUND, ONT.....315

ROGERS CITY, MICH.....256
via up bound course through Lake Huron. For down bound distance see reverse course.

TO PRINCIPAL POINTS ON LAKE ERIE

Via down bound course through Detroit River. For up bound distances see reverse courses.

Miles

ASHTABULA, OHIO, Outer Entrance...152

BAR POINT WEST CHANNEL GAS BUOY No. 1..... 27

Miles

BUFFALO, N. Y., Buffalo Light.....262

CLEVELAND, OHIO, E. Pierhead Light.109

CONNEAUT, OHIO, Outer Entrance....165

ERIE, PA., Presque Isle Pierhead Light...193

FAIRPORT, OHIO, Outer Entrance.....127

HURON, OHIO, Huron Light..... 79

LONG POINT 198

LORAIN, OHIO, West Pier Light..... 92

PORT COLBORNE, ONT.....245

SANDUSKY, OHIO, E. End Dock Channel 72

TOLEDO, OHIO, Manhattan Front Range Light 53

TO PRINCIPAL POINTS ON LAKE ONTARIO

Via down bound course through Detroit River. For up bound distances see reverse courses.

	Miles
ALEXANDRIA BAY, N. Y., Docks	462
CAPE VINCENT, N. Y., Breakwater Lights	435
CHARLOTTE, N. Y., Genesee Lights	367
OGDENSBURG, N. Y., Ogdensburg Light	495
OSWEGO, N. Y., Oswego Light	417
PORT DALHOUSIE, ONT., Front Range Light	273
PORT WELLER, ONT	273
TORONTO, ONT., Docks	304

MARINE CITY, MICH.

TO PRINCIPAL POINTS ON ST. CLAIR & DETROIT RIVERS

	Miles
AMHERSTBURG, ONT.	60
BAR POINT WEST CHANNEL GAS BUOY No. 1	69
DETROIT, MICH., Foot Woodward Ave.	43
PORT HURON, MICH. (Black River) & SARNIA, ONT.	19
WYANDOTTE, MICH.	53

TO PRINCIPAL POINTS ON LAKE SUPERIOR

Via up bound courses through Lake Huron and St. Marys River. For down bound distances see reverse courses.

Miles

ASHLAND, WIS., Wharf Front.....639
via up bound course through Lake Superior. For down bound distance see reverse course.

DULUTH, MINN., Piers.....684
via up bound course through Lake Superior. For down bound distance see reverse course.

FORT WILLIAM, ONT., Black Gas Buoy.564
via up bound course through Lake Superior. For down bound distance see reverse course.

HOUGHTON & HANCOCK, MICH.....512

JACKFISH, ONT. 499
via up bound course through Lake Superior. For down bound distance see reverse course.

MARQUETTE, MICH., Breakwater Light.449

PORT ARTHUR, ONT., Red Gas Buoy...565
via up bound course through Lake Superior. For down bound distance see reverse course.

Miles

SUPERIOR, WIS., Entry.....682
via up bound course through Lake Superior. For down bound distance see reverse course.

TWO HARBORS, MINN., Breakwater Light 660
via up bound course through Lake Superior. For down bound distance see reverse course.

WHITEFISH POINT 332

TO POINTS ON ST. MARYS RIVER

Miles

SOO LOCKS, American.....291
via up bound courses through Lake Huron and St. Marys River. For down bound distance see reverse course.

TO PRINCIPAL POINTS ON LAKE MICHIGAN

Via up bound course through Lake Huron. For down bound distances see reverse courses.

Miles

CHICAGO, ILL., Pierhead Range Light...590

Via northabout course through Lake Michigan 611

ESCANABA, MICH., West Light.....395
via northabout course and St. Martin Island Passage.

GARY, IND. 602

Via northabout course through Lake Michigan 623

GLADSTONE, MICH. 402
via northabout course and St. Martin Island Passage.

GREEN BAY, WIS., River Mouth.....463
via northabout course and Rock Island Passage.

MILWAUKEE, WIS., Pierhead Range Light 525

Via northabout course through Lake Michigan 542

OLD MACKINAC POINT.....266

Miles

PORTE DES MORTS PASSAGE, Pilot Island Light 390
via northabout course through Lake Michigan.

ROCK ISLAND PASSAGE, Red Gas Buoy No. 2.....372
via northabout course through Lake Michigan.

SHEBOYGAN, WIS., Breakwater Light..478
Via northabout course through Lake Michigan 492

SOUTH CHICAGO, ILL., Pierhead Light.599
Via northabout course through Lake Michigan 619

TO PRINCIPAL POINTS ON LAKE HURON

Miles

DEPOT HARBOR, ONT.....269

DETOUR 240
via up bound course through Lake Huron. For down bound distance see reverse course.

Miles

FORT GRATIOT LIGHT..... 22

HARBOR BEACH, MICH., North Main Light 84

OLD MACKINAC POINT.....266
via up bound course through Lake Huron. For down bound distance see reverse course.

OWEN SOUND, ONT.....265

PARRY SOUND, ONT.....273

ROGERS CITY, MICH.....214
via up bound course through Lake Huron. For down bound distance see reverse course.

TO PRINCIPAL POINTS ON LAKE ERIE

Via down bound course through Detroit River. For up bound distances see reverse courses.

Miles

ASHTABULA, OHIO, Outer Entrance...194

Miles

BAR POINT WEST CHANNEL GAS BUOY No. 1 69

BUFFALO, N. Y., Buffalo Light.....304

CLEVELAND, OHIO, E. Pierhead Light.151

CONNEAUT, OHIO, Outer Entrance.....207

ERIE, PA., Presque Isle Pierhead Light...235

FAIRPORT, OHIO, Outer Entrance.....169

HURON, OHIO, Huron Light.....121

LONG POINT 240

LORAIN, OHIO, West Pier Light.....134

PORT COLBORNE, ONT.....287

SANDUSKY, OHIO, E. End Dock Channel 114

TOLEDO, OHIO, Manhattan Front Range Light 95

TO PRINCIPAL POINTS ON LAKE ONTARIO

Via down bound course through Detroit River. For up bound distances see reverse courses.

	Miles
ALEXANDRIA BAY, N. Y., Docks	504
CAPE VINCENT, N. Y., Breakwater Lights	477
CHARLOTTE, N. Y., Genesee Lights	409
OGDENSBURG, N. Y., Ogdensburg Light	537
OSWEGO, N. Y., Oswego Light	459
PORT DALHOUSIE, ONT., Front Range Light	315
PORT WELLER, ONT	315
TORONTO, ONT., Docks	346

PORT HURON, MICH.

(Black River) and

SARNIA, ONT.

TO PRINCIPAL POINTS ON ST. CLAIR & DETROIT RIVERS

	Miles
AMHERSTBURG, ONT.	79
BAR POINT WEST CHANNEL GAS BUOY No. 1	88
DETROIT, MICH., Foot Woodward Ave.	62
MARINE CITY, MICH	19
WYANDOTTE, MICH.	72

TO PRINCIPAL POINTS ON LAKE SUPERIOR

Via up bound courses through Lake Huron and St. Marys River. For down bound distances see reverse courses.

Miles

ASHLAND, WIS., Wharf Front.....620
via up bound course through Lake Superior. For down bound distance see reverse course.

DULUTH, MINN., Piers.....665
via up bound course through Lake Superior. For down bound distance see reverse course.

FORT WILLIAM, ONT., Black Gas Buoy.545
via up bound course through Lake Superior. For down bound distance see reverse course.

HOUGHTON & HANCOCK, MICH.....493

JACKFISH, ONT. 480
via up bound course through Lake Superior. For down bound distance see reverse course.

MARQUETTE, MICH., Breakwater Light.430

PORT ARTHUR, ONT., Red Gas Buoy...546
via up bound course through Lake Superior. For down bound distance see reverse course.

Miles

SUPERIOR, WIS., Entry.....663
via up bound course through Lake Superior. For down bound distance see reverse course.

TWO HARBORS, MINN., Breakwater Light 641
via up bound course through Lake Superior. For down bound distance see reverse course.

WHITEFISH POINT 313

TO POINTS ON ST. MARYS RIVER

Miles

SOO LOCKS, American.....272
via up bound course through St. Marys River. For down bound distance see reverse course.

TO PRINCIPAL POINTS ON LAKE MICHIGAN

Via up bound course through Lake Huron. For down bound distances see reverse courses.

Miles

CHICAGO, ILL., Pierhead Range Light..571

Via northabout course through Lake Michigan 592

ESCANABA, MICH., West Light.....376
via northabout course and St. Martin Island Passage.

GARY, IND. 583

Via northabout course through Lake Michigan 604

GLADSTONE, MICH. 383
via northabout course and St. Martin Island Passage.

GREEN BAY, WIS., River Mouth.....444
via northabout course and Rock Island Passage.

MILWAUKEE, WIS., Pierhead Range Light 506

Via northabout course through Lake Michigan 523

OLD MACKINAC POINT.....247

Miles

PORTE DES MORTS PASSAGE, Pilot Island Light 371
via northabout course through Lake Michigan.

ROCK ISLAND PASSAGE, Red Gas Buoy No. 2.....353
via northabout course through Lake Michigan.

SHEBOYGAN, WIS., Breakwater Light..459
Via northabout course through Lake Michigan 473

SOUTH CHICAGO, ILL., Pierhead Light.580
Via northabout course through Lake Michigan 600

TO PRINCIPAL POINTS ON LAKE HURON

Miles

DEPOT HARBOR, ONT.....250

DETOUR 221
via up bound course through Lake Huron. For down bound distance see reverse course.

FORT GRATIOT LIGHT..... 3

Miles

HARBOR BEACH, MICH., North Main Light 65

OLD MACKINAC POINT.....247
via up bound course through Lake Huron. For down bound distance see reverse course.

OWEN SOUND, ONT.....246

PARRY SOUND, ONT.....254

ROGERS CITY, MICH.....195
via up bound course through Lake Huron. For down bound distance see reverse course.

TO PRINCIPAL POINTS ON LAKE ERIE

Via down bound course through Detroit River. For up bound distances see reverse courses.

Miles

ASHTABULA, OHIO, Outer Entrance...213

BAR POINT WEST CHANNEL GAS BUOY No. 1..... 88

BUFFALO, N. Y., Buffalo Light.....323

Miles

CLEVELAND, OHIO, E. Pierhead Light.170

CONNEAUT, OHIO, Outer Entrance....226

ERIE, PA., Presque Isle Pierhead Light...254

FAIRPORT, OHIO, Outer Entrance.....188

HURON, OHIO, Huron Light.....140

LONG POINT 259

LORAIN, OHIO, West Pier Light.....153

PORT COLBORNE, ONT.....306

SANDUSKY, OHIO, E. End Dock Channel 133

TOLEDO, OHIO, Manhattan Front Range Light 114

TO PRINCIPAL POINTS ON LAKE ONTARIO

Via down bound course through Detroit River. For up bound distances see reverse courses.

	Miles
ALEXANDRIA BAY, N. Y., Docks	523
CAPE VINCENT, N. Y., Breakwater Lights	496
CHARLOTTE, N. Y., Genesee Lights	428
OGDENSBURG, N. Y., Ogdensburg Light	556
OSWEGO, N. Y., Oswego Light	478
PORT DALHOUSIE, ONT., Front Range Light	334
PORT WELLER, ONT	334
TORONTO, ONT., Docks	365

WYANDOTTE, MICH.

TO PRINCIPAL POINTS ON ST. CLAIR & DETROIT RIVERS

	Miles
AMHERSTBURG, ONT.	8
BAR POINT WEST CHANNEL GAS BUOY No. 1	17
DETROIT, MICH., Foot Woodward Ave.	10
MARINE CITY, MICH	53
PORT HURON, MICH. (Black River) & SARNIA, ONT.	72

ASHTABULA, OHIO
Outer Entrance

TO POINTS ON LAKE ERIE

	Miles
BAR POINT EAST CHANNEL GAS & BELL BUOY No. 2	124
BUFFALO, N. Y., Buffalo Light	118
CLEVELAND, OHIO, E. Pier Light	59
CONNEAUT, OHIO, Outer Entrance	16
DUNKIRK, N. Y., Pierhead Light	86
ERIE, PA., Presque Isle Pierhead Light	45
FAIRPORT, OHIO, Outer Entrance	29
HURON, OHIO, Huron Light	99
LONG POINT	57

	Miles
LORAIN, OHIO, W. Pier Light	81
MIDDLE ISLAND	100
MONROE, MICH.	134
PORT BURWELL, ONT	51
PORT COLBORNE, ONT	104
PORT DOVER, ONT	78
PORT STANLEY, ONT	56
RONDEAU, ONT.	63
SANDUSKY, OHIO, E. End Dock Channel	106
SOUTHEAST SHOAL	88
SOUTH PASSAGE	104
TOLEDO, OHIO, Manhattan Front Range Light	143
TONAWANDA, N. Y., Docks	130
VERMILION, OHIO, West Pier Light	90

TO PRINCIPAL POINTS ON LAKE SUPERIOR

Via up bound courses through Detroit and St. Marys rivers and Lake Huron. For down bound distances see reverse courses.

Miles

ASHLAND, WIS., Wharf Front.....830
via up bound course through Lake Superior. For down bound distance see reverse course.

DULUTH, MINN., Piers.....875
via up bound course through Lake Superior. For down bound distance see reverse course.

FORT WILLIAM, ONT., Black Gas Buoy.755
via up bound course through Lake Superior. For down bound distance see reverse course.

HOUGHTON & HANCOCK, MICH.....703

JACKFISH, ONT. 690
via up bound course through Lake Superior. For down bound distance see reverse course.

MARQUETTE, MICH., Breakwater Light.640

PORT ARTHUR, ONT., Red Gas Buoy...756
via up bound course through Lake Superior. For down bound distance see reverse course.

Miles

SUPERIOR, WIS., Entry.....873
via up bound course through Lake Superior. For down bound distance see reverse course.

TWO HARBORS, MINN., Breakwater Light.....851
via up bound course through Lake Superior. For down bound distance see reverse course.

WHITEFISH POINT.....523

TO POINTS ON ST. MARYS RIVER

Miles

SOO LOCKS, American.....481
via up bound course through Detroit and St. Marys rivers and Lake Huron. For down bound distance see reverse course.

TO PRINCIPAL POINTS ON LAKE MICHIGAN

Via up bound courses through Detroit River and Lake Huron. For down bound distances see reverse courses.

Miles

CHICAGO, ILL., Pierhead Range Light 782

Via northabout course through Lake Michigan 803

ESCANABA, MICH., West Light.....588
via northabout course and St. Martin Island Passage.

GARY, IND. 795

Via northabout course through Lake Michigan 816

GLADSTONE, MICH. 595
via northabout course and St. Martin Island Passage.

GREEN BAY, WIS., River Mouth.....656
via northabout course and Rock Island Passage.

MILWAUKEE, WIS., Pierhead Range Light 717

Via northabout course through Lake Michigan 734

OLD MACKINAC POINT.....459

Miles

PORTE DES MORTS PASSAGE, Pilot Island Light 583
via northabout course through Lake Michigan.

ROCK ISLAND PASSAGE, Red Gas Buoy No. 2.....565
via northabout course through Lake Michigan.

SHEBOYGAN, WIS., Breakwater Light..671

Via northabout course through Lake Michigan 685

SOUTH CHICAGO, ILL., Pierhead Light.791

Via northabout course through Lake Michigan 811

TO PRINCIPAL POINTS ON LAKE HURON

Via up bound course through Detroit River. For down bound distances see reverse courses.

Miles

DEPOT HARBOR, ONT.....462

DETOUR 433
via up bound course through Lake Huron. For down bound distance see reverse course.

Miles

FORT GRATIOT LIGHT.....215

HARBOR BEACH, MICH., North Main Light.....277

OLD MACKINAC POINT.....459
via up bound course through Lake Huron. For down bound distance see reverse course.

OWEN SOUND, ONT.....458

PARRY SOUND, ONT.....466

ROGERS CITY, MICH.....407
via up bound course through Lake Huron. For down bound distance see reverse course.

TO PRINCIPAL POINTS ON ST. CLAIR & DETROIT RIVERS

Via up bound course through Detroit River. For down bound distances see reverse courses.

Miles

AMHERSTBURG, ONT. 133

BAR POINT EAST CHANNEL GAS & BELL BUOY No. 2.....124

Miles

DETROIT, MICH., Foot Woodward Ave..151

MARINE CITY, MICH.....193

PORT HURON, MICH. (Black River) & SARNIA, ONT. 212

WYANDOTTE, MICH. 141

TO PRINCIPAL POINTS ON LAKE ONTARIO

Miles

ALEXANDRIA BAY, N. Y., Docks.....321

CAPE VINCENT, N. Y., Breakwater Lights 294

CHARLOTTE, N. Y., Genesee Lights....226

OGDENSBURG, N. Y., Ogdensburg Light 354

OSWEGO, N. Y., Oswego Light.....276

PORT DALHOUSIE, ONT., Front Range Light 132

PORT WELLER, ONT.....132

TORONTO, ONT., Docks.....163

BAR POINT WEST CHANNEL GAS BUOY NO. 1

TO POINTS ON LAKE ERIE

	Miles
ASHTABULA, OHIO, Outer Entrance	125
BUFFALO, N. Y., Buffalo Light	235
CLEVELAND, OHIO, E. Pier Light	82
CONNEAUT, OHIO, Outer Entrance	138
DUNKIRK, N. Y., Pierhead Light	205
ERIE, PA., Presque Isle Pierhead Light	166
FAIRPORT, OHIO, Outer Entrance	100
HURON, OHIO, Huron Light	52
LONG POINT	171
LORAIN, OHIO, W. Pier Light	65

Bar Point West Channel—Cont.

	Miles
MIDDLE ISLAND	36
MONROE, MICH.	12
PORT BURWELL, ONT	140
PORT COLBORNE, ONT	218
PORT DOVER, ONT	192
PORT STANLEY, ONT	125
RONDEAU, ONT.	80
SANDUSKY, OHIO, E. End Dock Channel	45
SOUTHEAST SHOAL	37
SOUTH PASSAGE	37
TOLEDO, OHIO, Manhattan Front Range Light	26
TONAWANDA, N. Y., Docks	247
VERMILION, OHIO, W. Pier Light	58

TO PRINCIPAL POINTS ON LAKE ONTARIO

	Miles
ALEXANDRIA BAY, N. Y., Docks	435
CAPE VINCENT, N. Y., Breakwater Lights	408
CHARLOTTE, N. Y., Genesee Lights	340
OGDENSBURG, N. Y., Ogdensburg Light	468
OSWEGO, N. Y., Oswego Light	390
PORT DALHOUSIE, ONT., Front Range Light	246
PORT WELLER, ONT	246
TORONTO, ONT., Docks	277

BAR POINT EAST CHANNEL GAS AND BELL BUOY NO. 2

TO PRINCIPAL POINTS ON LAKE SUPERIOR

Via up bound courses through Detroit and St. Marys rivers and Lake Huron. For down bound distances see reverse courses.

Miles

ASHLAND, WIS., Wharf Front.....706
via up bound course through Lake Superior. For down bound distance see reverse course.

DULUTH, MINN., Piers.....751
via up bound course through Lake Superior. For down bound distance see reverse course.

FORT WILLIAM, ONT., Black Gas Buoy.631
via up bound course through Lake Superior. For down bound distance see reverse course.

HOUGHTON & HANCOCK, MICH.....579

Miles

JACKFISH, ONT. 566
via up bound course through Lake Superior. For down bound distance see reverse course.

MARQUETTE, MICH., Breakwater Light.516

PORT ARTHUR, ONT., Red Gas Buoy...632
via up bound course through Lake Superior. For down bound distance see reverse course.

SUPERIOR, WIS., Entry.....749
via up bound course through Lake Superior. For down bound distance see reverse course.

TWO HARBORS, MINN., Breakwater Light 727
via up bound course through Lake Superior. For down bound distance see reverse course.

WHITEFISH POINT 399

TO POINTS ON ST. MARYS RIVER

Miles

SOO LOCKS, American.....357
via up bound courses through Detroit and St. Marys rivers and Lake Huron. For down bound distance see reverse course.

TO PRINCIPAL POINTS ON LAKE MICHIGAN

Via up bound courses through Detroit River and Lake Huron. For down bound distances see reverse courses.

Miles

CHICAGO, ILL., Pierhead Range Light..658

Via northabout course through Lake Michigan 679

ESCANABA, MICH., West Light.....464
via northabout course and St. Martin Island Passage.

GARY, IND. 671

Via northabout course through Lake Michigan 692

GLADSTONE, MICH. 471
via northabout course and St. Martin Island Passage.

GREEN BAY, WIS., River Mouth.....532
via northabout course and Rock Island Passage.

MILWAUKEE, WIS., Pierhead Range Light 593

Via northabout course through Lake Michigan 610

OLD MACKINAC POINT.....335

Miles

PORTE DES MORTS PASSAGE, Pilot Island Light 459
via northabout course through Lake Michigan.

ROCK ISLAND PASSAGE, Red Gas Buoy No. 2.....441
via northabout course through Lake Michigan.

SHEBOYGAN, WIS., Breakwater Light..547
Via northabout course through Lake Michigan 561

SOUTH CHICAGO, ILL., Pierhead Light.667
Via northabout course through Lake Michigan 687

TO PRINCIPAL POINTS ON LAKE HURON

Via up bound course through Detroit River. For down bound distances see reverse courses.

Miles

DEPOT HARBOR, ONT.....338

DETOUR 309
via up bound course through Lake Huron. For down bound distance see reverse course.

Miles

FORT GRATIOT LIGHT..... 91

HARBOR BEACH, MICH., North Main Light 153

OLD MACKINAC POINT.....335
via up bound course through Lake Huron. For down bound distance see reverse course.

OWEN SOUND, ONT.....334

PARRY SOUND, ONT.....342

ROGERS CITY, MICH.....283
via up bound course through Lake Huron. For down bound distance see reverse course.

TO PRINCIPAL POINTS ON ST. CLAIR & DETROIT RIVERS

Via up bound course through Detroit River. For down bound distances see reverse courses.

	Miles
AMHERSTBURG, ONT.	9
DETROIT, MICH., Foot Woodward Ave.	27
MARINE CITY, MICH	69
PORT HURON, MICH. (Black River) & SARNIA, ONT.	88
WYANDOTTE, MICH.	17

BUFFALO, N. Y.
Buffalo Light

TO POINTS ON LAKE ERIE

	Miles
ASHTABULA, OHIO, Outer Entrance	118
BAR POINT EAST CHANNEL GAS & BELL BUOY No. 2	234
CLEVELAND, OHIO, E. Pier Light	175
CONNEAUT, OHIO, Outer Entrance	106
DUNKIRK, N. Y., Pierhead Light	36
ERIE, PA., Presque Isle Pierhead Light	78
FAIRPORT, OHIO, Outer Entrance	145
HURON, OHIO, Huron Light	214
LONG POINT	64

Miles

LORAIN, OHIO, W. Pier Light.....196

MIDDLE ISLAND 212

MONROE, MICH. 243

PORT BURWELL, ONT.....105

PORT COLBORNE, ONT..... 21

PORT DOVER, ONT..... 72

PORT STANLEY, ONT.....125

RONDEAU, ONT. 162

SANDUSKY, OHIO, E. End Dock Channel 220

SOUTHEAST SHOAL 198

SOUTH PASSAGE 216

TOLEDO, OHIO, Manhattan Front Range Light 253

TONAWANDA, N. Y., Docks..... 13

VERMILION, OHIO, West Pier Light...205

TO PRINCIPAL POINTS ON LAKE SUPERIOR

Via up bound courses through Detroit and St. Marys rivers and Lake Huron. For down bound distances see reverse courses.

Miles

ASHLAND, WIS., Wharf Front.....940
via up bound course through Lake Superior. For down bound distance see reverse course.

DULUTH, MINN., Piers.....985
via up bound course through Lake Superior. For down bound distance see reverse course.

FORT WILLIAM, ONT., Black Gas Buoy.865
via up bound course through Lake Superior. For down bound distance see reverse course.

HOUGHTON & HANCOCK, MICH.....813

JACKFISH, ONT. 800
via up bound course through Lake Superior. For down bound distance see reverse course.

MARQUETTE, MICH., Breakwater Light.750

PORT ARTHUR, ONT., Red Gas Buoy...866
via up bound course through Lake Superior. For down bound distance see reverse course.

Miles

SUPERIOR, WIS., Entry.....983
via up bound course through Lake Superior. For down bound distance see reverse course.

TWO HARBORS, MINN., Breakwater Light 961
via up bound course through Lake Superior. For down bound distance see reverse course.

WHITEFISH POINT 633

TO POINTS ON ST. MARYS RIVER

Miles

SOO LOCKS, American.....591
via up bound courses through Detroit and St. Marys rivers and Lake Huron. For down bound distance see reverse course.

TO PRINCIPAL POINTS ON LAKE MICHIGAN

Via up bound courses through Detroit River and Lake Huron. For down bound distances see reverse courses.

Miles

CHICAGO, ILL., Pierhead Range Light..892

Via northabout course through Lake Michigan 913

ESCANABA, MICH., West Light.....698
via northabout course and St. Martin Island Passage.

GARY, IND. 905

Via northabout course through Lake Michigan 926

GLADSTONE, MICH. 705
via northabout course and St. Martin Island Passage.

GREEN BAY, WIS., River Mouth.....766
via northabout course and Rock Island Passage.

MILWAUKEE, WIS., Pierhead Range Light 827

Via northabout course through Lake Michigan 844

OLD MACKINAC POINT.....569

Miles

PORTE DES MORTS PASSAGE, Pilot Island Light 693
via northabout course through Lake Michigan.

ROCK ISLAND PASSAGE, Red Gas Buoy No. 2.....675
via northabout course through Lake Michigan.

SHEBOYGAN, WIS., Breakwater Light..781
Via northabout course through Lake Michigan 795

SOUTH CHICAGO, ILL., Pierhead Light.901
Via northabout course through Lake Michigan 921

TO PRINCIPAL POINTS ON LAKE HURON

Via up bound course through Detroit River. For down bound distances see reverse courses.

Miles

DEPOT HARBOR, ONT.....572

Miles

DETOUR 543
via up bound course through Lake Huron. For down bound distance see reverse course.

FORT GRATIOT LIGHT. 325

HARBOR BEACH, MICH., North Main Light 387

OLD MACKINAC POINT. 569
via up bound course through Lake Huron. For down bound distance see reverse course.

OWEN SOUND, ONT. 568

PARRY SOUND, ONT. 576

ROGERS CITY, MICH. 517
via up bound course through Lake Huron. For down bound distance see reverse course.

TO PRINCIPAL POINTS ON ST. CLAIR & DETROIT RIVERS

Via up bound course through Detroit River. For down bound distances see reverse courses.

Miles

AMHERSTBURG, ONT. 243

Miles

BAR POINT EAST CHANNEL GAS & BELL BUOY No. 2.....234

DETROIT, MICH., Foot Woodward Ave..261

MARINE CITY, MICH.....303

PORT HURON, MICH. (Black River) & SARNIA, ONT. 322

WYANDOTTE, MICH. 251

TO PRINCIPAL POINTS ON LAKE ONTARIO

Miles

ALEXANDRIA BAY, N. Y., Docks.....238

CAPE VINCENT, N. Y., Breakwater Lights 211

CHARLOTTE, N. Y., Genesee Lights....143

OGDENSBURG, N. Y., Ogdensburg Light 271

OSWEGO, N. Y., Oswego Light.....193

Miles

PORT DALHOUSIE, ONT., Front Range Light 49

PORT WELLER, ONT 49

TORONTO, ONT., Docks 80

CLEVELAND, OHIO
E. Pier Light

TO POINTS ON LAKE ERIE

	Miles
ASHTABULA, OHIO, Outer Entrance...	59
BAR POINT EAST CHANNEL GAS & BELL BUOY No. 2.....	81
BUFFALO, N. Y., Buffalo Light.....	175
CONNEAUT, OHIO, Outer Entrance.....	73
DUNKIRK, N. Y., Pierhead Light.....	143
ERIE, PA., Presque Isle Pierhead Light...	102
FAIRPORT, OHIO, Outer Entrance.....	33
HURON, OHIO, Huron Light.....	46
LONG POINT	113

	Miles
LORAIN, OHIO, W. Pier Light	27
MIDDLE ISLAND	52
MONROE, MICH.	91
PORT BURWELL, ONT	93
PORT COLBORNE, ONT	160
PORT DOVER, ONT	134
PORT STANLEY, ONT	85
RONDEAU, ONT.	53
SANDUSKY, OHIO, E. End Dock Channel	55
SOUTHEAST SHOAL	45
SOUTH PASSAGE	53
TOLEDO, OHIO, Manhattan Front Range Light	97
TONAWANDA, N. Y., Docks	187
VERMILION, OHIO, West Pier Light	37

TO PRINCIPAL POINTS ON LAKE SUPERIOR

Via up bound courses through Detroit and St. Marys rivers and Lake Huron. For down bound distances see reverse courses.

Miles

ASHLAND, WIS., Wharf Front.....787
via up bound course through Lake Superior. For down bound distance see reverse course.

DULUTH, MINN., Piers.....832
via up bound course through Lake Superior. For down bound distance see reverse course.

FORT WILLIAM, ONT., Black Gas Buoy.712
via up bound course through Lake Superior. For down bound distance see reverse course.

HOUGHTON & HANCOCK, MICH.....660

JACKFISH, ONT. 647
via up bound course through Lake Superior. For down bound distance see reverse course.

MARQUETTE, MICH., Breakwater Light.597

PORT ARTHUR, ONT., Red Gas Buoy..713
via up bound course through Lake Superior. For down bound distance see reverse course.

Miles

SUPERIOR, WIS., Entry.....830
via up bound course through Lake Superior. For down bound distance see reverse course.

TWO HARBORS, MINN., Breakwater Light.....808
via up bound course through Lake Superior. For down bound distance see reverse course.

WHITEFISH POINT.....480

TO POINTS ON ST. MARYS RIVER

Miles

SOO LOCKS, American.....438
via up bound courses through Detroit and St. Marys rivers and Lake Huron. For down bound distance see reverse course.

TO PRINCIPAL POINTS ON LAKE MICHIGAN

Via up bound courses through Detroit River and Lake Huron. For down bound distances see reverse courses.

Miles

CHICAGO, ILL., Pierhead Range Light..739

Via northabout course through Lake Michigan 760

ESCANABA, MICH., West Light.....545
via northabout course and St. Martin Island Passage.

GARY, IND. 752

Via northabout course through Lake Michigan 773

GLADSTONE, MICH. 552
via northabout course and St. Martin Island Passage.

GREEN BAY, WIS., River Mouth.....613
via northabout course and Rock Island Passage.

MILWAUKEE, WIS., Pierhead Range Light 674

Via northabout course through Lake Michigan 691

OLD MACKINAC POINT.....416

Miles

PORTE DES MORTS PASSAGE, Pilot Island Light 540
via northabout course through Lake Michigan.

ROCK ISLAND PASSAGE, Red Gas Buoy No. 2.....522
via northabout course through Lake Michigan.

SHEBOYGAN, WIS., Breakwater Light..628
Via northabout course through Lake Michigan 642

SOUTH CHICAGO, ILL., Pierhead Light.748
Via northabout course through Lake Michigan 768

TO PRINCIPAL POINTS ON LAKE HURON

Via up bound course through Detroit River. For down bound distances see reverse courses.

Miles

DEPOT HARBOR, ONT.....419

DETOUR 390
via up bound course through Lake Huron. For down bound distance see reverse course.

	Miles
FORT GRATIOT LIGHT	172
HARBOR BEACH, MICH., North Main Light	234
OLD MACKINAC POINT via up bound course through Lake Huron. For down bound distance see reverse course.	416
OWEN SOUND, ONT	415
PARRY SOUND, ONT	423
ROGERS CITY, MICH via up bound course through Lake Huron. For down bound distance see reverse course.	364

TO PRINCIPAL POINTS ON ST. CLAIR & DETROIT RIVERS

	Miles
AMHERSTBURG, ONT.	90
BAR POINT EAST CHANNEL GAS & BELL BUOY No. 2	81
DETROIT, MICH., Foot Woodward Ave.	108

	Miles
MARINE CITY, MICH.	150
PORT HURON, MICH. (Black River) & SARNIA, ONT.	169
WYANDOTTE, MICH.	98

TO PRINCIPAL POINTS ON LAKE ONTARIO

	Miles
ALEXANDRIA BAY, N. Y., Docks	377
CAPE VINCENT, N. Y., Breakwater Lights	350
CHARLOTTE, N. Y., Genesee Lights	282
OGDENSBURG, N. Y., Ogdensburg Light	410
OSWEGO, N. Y., Oswego Light	332
PORT DALHOUSIE, ONT., Front Range Light	188
PORT WELLER, ONT	188
TORONTO, ONT., Docks	219

CONNEAUT, OHIO
Outer Entrance

TO POINTS ON LAKE ERIE

	Miles
ASHTABULA, OHIO, Outer Entrance....	16
BAR POINT EAST CHANNEL GAS & BELL BUOY No. 2.....	137
BUFFALO, N. Y., Buffalo Light.....	106
CLEVELAND, OHIO, E. Pier Light.....	73
DUNKIRK, N. Y., Pierhead Light.....	74
ERIE, PA., Presque Isle Pierhead Light...	33
FAIRPORT, OHIO, Outer Entrance.....	43
HURON, OHIO, Huron Light.....	112
LONG POINT	46

	Miles
LORAIN, OHIO, W. Pier Light	94
MIDDLE ISLAND	114
MONROE, MICH.	147
PORT BURWELL, ONT	48
PORT COLBORNE, ONT	92
PORT DOVER, ONT	68
PORT STANLEY, ONT	58
RONDEAU, ONT.	74
SANDUSKY, OHIO, E. End Dock Channel	120
SOUTHEAST SHOAL	101
SOUTH PASSAGE	117
TOLEDO, OHIO, Manhattan Front Range Light	156
TONAWANDA, N. Y., Docks	118
VERMILION, OHIO, West Pier Light	104

TO PRINCIPAL POINTS ON LAKE SUPERIOR

Via up bound courses through Detroit and St. Marys rivers and Lake Huron. For down bound distances see reverse courses.

Miles

ASHLAND, WIS., Wharf Front.....843
via up bound course through Lake Superior. For down bound distance see reverse course.

DULUTH, MINN., Piers.....888
via up bound course through Lake Superior. For down bound distance see reverse course.

FORT WILLIAM, ONT., Black Gas Buoy.768
via up bound course through Lake Superior. For down bound distance see reverse course.

HOUGHTON & HANCOCK, MICH.....716

JACKFISH, ONT. 703
via up bound course through Lake Superior. For down bound distance see reverse course.

MARQUETTE, MICH., Breakwater Light.653

PORT ARTHUR, ONT., Red Gas Buoy...769
via up bound course through Lake Superior. For down bound distance see reverse course.

Miles

SUPERIOR, WIS., Entry.....886
via up bound course through Lake Superior. For down bound distance see reverse course.

TWO HARBORS, MINN., Breakwater Light 864
via up bound course through Lake Superior. For down bound distance see reverse course.

WHITEFISH POINT 536

TO POINTS ON ST. MARYS RIVER

Miles

SOO LOCKS, American.....494
via up bound courses through Detroit and St. Marys rivers and Lake Huron. For down bound distance see reverse course.

TO PRINCIPAL POINTS ON LAKE MICHIGAN

Via up bound courses through Detroit River and Lake Huron. For down bound distances see reverse courses.

Miles

CHICAGO, ILL., Pierhead Range Light..795

Via northabout course through Lake Michigan 816

ESCANABA, MICH., West Light.....601
via northabout course and St. Martin Island Passage.

GARY, IND. 808

Via northabout course through Lake Michigan 829

GLADSTONE, MICH. 608
via northabout course and St. Martin Island Passage.

GREEN BAY, WIS., River Mouth.....669
via northabout course and Rock Island Passage.

MILWAUKEE, WIS., Pierhead Range Light 730

Via northabout course through Lake Michigan 747

OLD MACKINAC POINT.....472

Miles

PORTE DES MORTS PASSAGE, Pilot Island Light 596
via northabout course through Lake Michigan.

ROCK ISLAND PASSAGE, Red Gas Buoy No. 2.....578
via northabout course through Lake Michigan.

SHEBOYGAN, WIS., Breakwater Light..684
Via northabout course through Lake Michigan 698

SOUTH CHICAGO, ILL., Pierhead Light.804
Via northabout course through Lake Michigan 824

TO PRINCIPAL POINTS ON LAKE HURON

Via up bound course through Detroit River. For down bound distances see reverse courses.

Miles

DEPOT HARBOR, ONT.....475

DETOUR 446
via up bound course through Lake Huron. For down bound distance see reverse course.

Miles

FORT GRATIOT LIGHT.....228

HARBOR BEACH, MICH., North Main Light.....290

OLD MACKINAC POINT.....472
via up bound course through Lake Huron. For down bound distance see reverse course.

OWEN SOUND, ONT.....471

PARRY SOUND, ONT.....479

ROGERS CITY, MICH.....420
via up bound course through Lake Huron. For down bound distance see reverse course.

TO PRINCIPAL POINTS ON ST. CLAIR & DETROIT RIVERS

Via up bound course through Detroit River. For down bound distances see reverse courses.

Miles

AMHERSTBURG, ONT. 146

BAR POINT EAST CHANNEL GAS & BELL BUOY No. 2.....137

	Miles
DETROIT, MICH., Foot Woodward Ave.	164
MARINE CITY, MICH	206
PORT HURON, MICH. (Black River) & SARNIA, ONT.	225
WYANDOTTE, MICH.	154

TO PRINCIPAL POINTS ON LAKE ONTARIO

	Miles
ALEXANDRIA BAY, N. Y., Docks	309
CAPE VINCENT, N. Y., Breakwater Lights	282
CHARLOTTE N. Y., Genesee Lights	214
OGDENSBURG, N. Y., Ogdensburg Light	342
OSWEGO, N. Y., Oswego Light	264
PORT DALHOUSIE, ONT., Front Range Light	120
PORT WELLER, ONT	120
TORONTO, ONT., Docks	151

DUNKIRK, N. Y.
Pierhead Light

TO POINTS ON LAKE ERIE

	Miles
ASHTABULA, OHIO, Outer Entrance	86
BAR POINT EAST CHANNEL GAS & BELL BUOY No. 2	204
BUFFALO, N. Y., Buffalo Light	36
CLEVELAND, OHIO, E. Pier Light	143
CONNEAUT, OHIO, Outer Entrance	74
ERIE, PA., Presque Isle Pierhead Light	45
FAIRPORT, OHIO, Outer Entrance	113
HURON, OHIO, Huron Light	182
LONG POINT	37

Miles

LORAIN, OHIO, W. Pier Light.....165

MIDDLE ISLAND 181

MONROE, MICH. 214

PORT BURWELL, ONT..... 77

PORT COLBORNE, ONT..... 27

PORT DOVER, ONT..... 49

PORT STANLEY, ONT..... 97

RONDEAU, ONT. 133

SANDUSKY, OHIO, E. End Dock Channel 190

SOUTHEAST SHOAL 167

SOUTH PASSAGE 186

TOLEDO, OHIO, Manhattan Front Range Light 223

TONAWANDA, N. Y., Docks..... 48

VERMILION, OHIO, West Pier Light...174

ERIE, PA.

Presque Isle Pierhead Light

TO POINTS ON LAKE ERIE

	Miles
ASHTABULA, OHIO, Outer Entrance...	45
BAR POINT EAST CHANNEL GAS & BELL BUOY No. 2.....	165
BUFFALO, N. Y., Buffalo Light.....	78
CLEVELAND, OHIO, E. Pier Light.....	102
CONNEAUT, OHIO, Outer Entrance.....	33
DUNKIRK, N. Y., Pierhead Light.....	45
FAIRPORT, OHIO, Outer Entrance.....	72
HURON, OHIO, Huron Light.....	142
LONG POINT	26

Miles

LORAIN, OHIO, W. Pier Light.....123

MIDDLE ISLAND 141

MONROE, MICH. 174

PORT BURWELL, ONT..... 52

PORT COLBORNE, ONT..... 65

PORT DOVER, ONT..... 47

PORT STANLEY, ONT..... 70

RONDEAU, ONT. 98

SANDUSKY, OHIO, E. End Dock Channel 148

SOUTHEAST SHOAL 129

SOUTH PASSAGE 145

TOLEDO, OHIO, Manhattan Front Range Light 184

TONAWANDA, N. Y., Docks..... 90

VERMILION, OHIO, West Pier Light...133

TO PRINCIPAL POINTS ON LAKE SUPERIOR

Via up bound courses through Detroit and St. Marys rivers and Lake Huron. For down bound distances see reverse courses.

Miles

ASHLAND, WIS., Wharf Front.....871
via up bound course through Lake Superior. For down bound distance see reverse course.

DULUTH, MINN., Piers.....916
via up bound course through Lake Superior. For down bound distance see reverse course.

FORT WILLIAM, ONT., Black Gas Buoy.796
via up bound course through Lake Superior. For down bound distance see reverse course.

HOUGHTON & HANCOCK, MICH.....744

JACKFISH, ONT. 731
via up bound course through Lake Superior. For down bound distance see reverse course.

MARQUETTE, MICH., Breakwater Light.681

PORT ARTHUR, ONT., Red Gas Buoy...797
via up bound course through Lake Superior. For down bound distance see reverse course.

Miles

SUPERIOR, WIS., Entry.....914
via up bound course through Lake Superior. For down bound distance see reverse course.

TWO HARBORS, MINN., Breakwater Light 892
via up bound course through Lake Superior. For down bound distance see reverse course.

WHITEFISH POINT 564

TO POINTS ON ST. MARYS RIVER

Miles

SOO LOCKS, American.....522
via up bound courses through Detroit and St. Marys rivers and Lake Huron. For down bound distance see reverse course.

TO PRINCIPAL POINTS ON LAKE MICHIGAN

Via up bound courses through Detroit River and Lake Huron. For down bound distances see reverse courses.

Miles

CHICAGO, ILL., Pierhead Range Light..823

Via northabout course through Lake Michigan 844

ESCANABA, MICH., West Light.....629
via northabout course and St. Martin Island Passage.

GARY, IND. 836

Via northabout course through Lake Michigan 857

GLADSTONE, MICH. 636
via northabout course and St. Martin Island Passage.

GREEN BAY, WIS., River Mouth.....697
via northabout course and Rock Island Passage.

MILWAUKEE, WIS., Pierhead Range Light 758

Via northabout course through Lake Michigan 775

OLD MACKINAC POINT.....500

Miles

PORTE DES MORTS PASSAGE, Pilot Island Light 624
via northabout course through Lake Michigan.

ROCK ISLAND PASSAGE, Red Gas Buoy No. 2.....606
via northabout course through Lake Michigan.

SHEBOYGAN, WIS., Breakwater Light..712
Via northabout course through Lake Michigan 726

SOUTH CHICAGO, ILL., Pierhead Light.832
Via northabout course through Lake Michigan 852

TO PRINCIPAL POINTS ON LAKE HURON

Via up bound course through Detroit River. For down bound distances see reverse courses.

Miles

DEPOT HARBOR, ONT.....503

DETOUR 474
via up bound course through Lake Huron. For down bound distance see reverse course.

Miles

FORT GRATIOT LIGHT.....256

HARBOR BEACH, MICH., North Main Light 318

OLD MACKINAC POINT.....500
via up bound course through Lake Huron. For down bound distance see reverse course.

OWEN SOUND, ONT.....499

PARRY SOUND, ONT.....507

ROGERS CITY, MICH.....448
via up bound course through Lake Huron. For down bound distance see reverse course.

TO PRINCIPAL POINTS ON ST. CLAIR & DETROIT RIVERS

Via up bound course through Detroit River. For down bound distances see reverse courses.

Miles

AMHERSTBURG, ONT. 174

BAR POINT EAST CHANNEL GAS & BELL BUOY No. 2.....165

Miles

DETROIT, MICH., Foot Woodward Ave..192

MARINE CITY, MICH.....234

PORT HURON, MICH. (Black River) & SARNIA, ONT. 253

WYANDOTTE, MICH. 182

TO PRINCIPAL POINTS ON LAKE ONTARIO

Miles

ALEXANDRIA BAY, N. Y., Docks.....282

CAPE VINCENT, N. Y., Breakwater Lights 255

CHARLOTTE, N. Y., Genesee Lights.....187

OGDENSBURG, N. Y., Ogdensburg Light 315

OSWEGO, N. Y., Oswego Light.....237

PORT DALHOUSIE, ONT., Front Range Light 93

PORT WELLER, ONT..... 93

TORONTO, ONT., Docks.....124

FAIRPORT, OHIO
Outer Entrance

TO POINTS ON LAKE ERIE

	Miles
ASHTABULA, OHIO, Outer Entrance...	29
BAR POINT EAST CHANNEL GAS & BELL BUOY No. 2.....	99
BUFFALO, N. Y., Buffalo Light.....	145
CLEVELAND, OHIO, E. Pier Light.....	33
CONNEAUT, OHIO, Outer Entrance....	43
DUNKIRK, N. Y., Pierhead Light.....	113
ERIE, PA., Presque Isle Pierhead Light...	72
HURON, OHIO, Huron Light.....	73
LONG POINT	83

Fairport, Ohio—Cont.

	Miles
LORAIN, OHIO, W. Pier Light	54
MIDDLE ISLAND	75
MONROE, MICH.	109
PORT BURWELL, ONT	66
PORT COLBORNE, ONT	130
PORT DOVER, ONT	104
PORT STANLEY, ONT	62
RONDEAU, ONT.	47
SANDUSKY, OHIO, E. End Dock Channel	80
SOUTHEAST SHOAL	63
SOUTH PASSAGE	78
TOLEDO, OHIO, Manhattan Front Range Light	118
TONAWANDA, N. Y., Docks	157
VERMILION, OHIO, West Pier Light	64

TO PRINCIPAL POINTS ON LAKE SUPERIOR

Via up bound courses through Detroit and St. Marys rivers and Lake Huron. For down bound distances see reverse courses.

Miles

ASHLAND, WIS., Wharf Front.....805
via up bound course through Lake Superior. For down bound distance see reverse course.

DULUTH, MINN., Piers.....850
via up bound course through Lake Superior. For down bound distance see reverse course.

FORT WILLIAM, ONT., Black Gas Buoy.730
via up bound course through Lake Superior. For down bound distance see reverse course.

HOUGHTON & HANCOCK, MICH.....678

JACKFISH, ONT. 665
via up bound course through Lake Superior. For down bound distance see reverse course.

MARQUETTE, MICH., Breakwater Light.615

PORT ARTHUR, ONT., Red Gas Buoy...731
via up bound course through Lake Superior. For down bound distance see reverse course.

Miles

SUPERIOR, WIS., Entry.....848
via up bound course through Lake Superior. For down bound distance see reverse course.

TWO HARBORS, MINN., Breakwater Light 826
via up bound course through Lake Superior. For down bound distance see reverse course.

WHITEFISH POINT 498

TO POINTS ON ST. MARYS RIVER

Miles

SOO LOCKS, American.....456
via up bound courses through Detroit and St. Marys rivers and Lake Huron. For down bound distance see reverse course.

TO PRINCIPAL POINTS ON LAKE MICHIGAN

Via up bound courses through Detroit River and Lake Huron. For down bound distances see reverse courses.

Miles

CHICAGO, ILL., Pierhead Range Light..757

Via northabout course through Lake Michigan 778

ESCANABA, MICH., West Light.....563
via northabout course and St. Martin Island Passage.

GARY, IND. 770

Via northabout course through Lake Michigan 791

GLADSTONE, MICH. 570
via northabout course and St. Martin Island Passage.

GREEN BAY, WIS., River Mouth.....631
via northabout course and Rock Island Passage.

MILWAUKEE, WIS., Pierhead Range Light 692

Via northabout course through Lake Michigan 709

OLD MACKINAC POINT.....434

Miles

PORTE DES MORTS PASSAGE, Pilot Island Light 558
via northabout course through Lake Michigan.

ROCK ISLAND PASSAGE, Red Gas Buoy No. 2.....540
via northabout course through Lake Michigan.

SHEBOYGAN, WIS., Breakwater Light..646
Via northabout course through Lake Michigan 660

SOUTH CHICAGO, ILL., Pierhead Light.766
Via northabout course through Lake Michigan 786

TO PRINCIPAL POINTS ON LAKE HURON

Via up bound course through Detroit River. For down bound distances see reverse courses.

Miles

DEPOT HARBOR, ONT.....437

DETOUR 408
via up bound course through Lake Huron. For down bound distance see reverse course.

Miles

FORT GRATIOT LIGHT.....190

HARBOR BEACH, MICH., North Main Light 252

OLD MACKINAC POINT.....434
via up bound course through Lake Huron. For down bound distance see reverse course.

OWEN SOUND, ONT.....433

PARRY SOUND, ONT.....441

ROGERS CITY, MICH.....382
via up bound course through Lake Huron. For down bound distance see reverse course.

TO PRINCIPAL POINTS ON ST. CLAIR & DETROIT RIVERS

Via up bound course through Detroit River. For down bound distances see reverse courses.

Miles

AMHERSTBURG, ONT. 108

BAR POINT EAST CHANNEL GAS & BELL BUOY No. 2..... 99

	Miles
DETROIT, MICH., Foot Woodward Ave.	126
MARINE CITY, MICH	168
PORT HURON, MICH. (Black River) & SARNIA, ONT.	187
WYANDOTTE, MICH.	116

TO PRINCIPAL POINTS ON LAKE ONTARIO

	Miles
ALEXANDRIA BAY, N. Y., Docks	347
CAPE VINCENT, N. Y., Breakwater Lights	320
CHARLOTTE, N. Y., Genesee Lights	252
OGDENSBURG, N. Y., Ogdensburg Light	380
OSWEGO, N. Y., Oswego Light	302
PORT DALHOUSIE, ONT., Front Range Light	158
PORT WELLER, ONT	158
TORONTO, ONT., Docks	189

HURON, OHIO
Huron Light

TO POINTS ON LAKE ERIE

	Miles
ASHTABULA, OHIO, Outer Entrance...	99
BAR POINT EAST CHANNEL GAS & BELL BUOY No. 2.....	52
BUFFALO, N. Y., Buffalo Light.....	214
CLEVELAND, OHIO, E. Pier Light.....	46
CONNEAUT, OHIO, Outer Entrance....	112
DUNKIRK, N. Y., Pierhead Light.....	182
ERIE, PA., Presque Isle Pierhead Light...	142
FAIRPORT, OHIO, Outer Entrance.....	73
LONG POINT	151

	Miles
LORAIN, OHIO, West Pier Light	20
MIDDLE ISLAND	21
MONROE, MICH.	54
PORT BURWELL, ONT.	125
PORT COLBORNE, ONT.	158
PORT DOVER, ONT.	172
PORT STANLEY, ONT.	111
RONDEAU, ONT.	68
SANDUSKY, OHIO, E. End Dock Channel	14
SOUTHEAST SHOAL	29
SOUTH PASSAGE	15
TOLEDO, OHIO, Manhattan Front Range Light	58
TONAWANDA, N. Y., Docks	226
VERMILION, OHIO, West Pier Light	11

TO PRINCIPAL POINTS ON LAKE SUPERIOR

Via up bound courses through Detroit and St. Marys rivers and Lake Huron. For down bound distances see reverse courses.

Miles

ASHLAND, WIS., Wharf Front.....758
via up bound course through Lake Superior. For down bound distance see reverse course.

DULUTH, MINN., Piers.....803
via up bound course through Lake Superior. For down bound distance see reverse course.

FORT WILLIAM, ONT., Black Gas Buoy.683
via up bound course through Lake Superior. For down bound distance see reverse course.

HOUGHTON & HANCOCK, MICH.....631

JACKFISH, ONT. 618
via up bound course through Lake Superior. For down bound distance see reverse course.

MARQUETTE, MICH., Breakwater Light.568

PORT ARTHUR, ONT., Red Gas Buoy...684
via up bound course through Lake Superior. For down bound distance see reverse course.

Miles

SUPERIOR, WIS., Entry.....801
via up bound course through Lake Superior. For down bound distance see reverse course.

TWO HARBORS, MINN., Breakwater Light 779
via up bound course through Lake Superior. For down bound distance see reverse course

WHITEFISH POINT 451

TO POINTS ON ST. MARYS RIVER

Miles

SOO LOCKS, American.....409
via up bound courses through Detroit and St. Marys rivers and Lake Huron. For down bound distance see reverse course.

TO PRINCIPAL POINTS ON LAKE MICHIGAN

Via up bound courses through Detroit River and Lake Huron. For down bound distances see reverse courses.

Miles

CHICAGO, ILL., Pierhead Range Light..710

Via northabout course through Lake Michigan 731

ESCANABA, MICH., West Light.....516
via northabout course and St. Martin Island Passage.

GARY, IND. 723

Via northabout course through Lake Michigan 744

GLADSTONE, MICH. 523
via northabout course and St. Martin Island Passage.

GREEN BAY, WIS., River Mouth.....584
via northabout course and Rock Island Passage.

MILWAUKEE, WIS., Pierhead Range Light 645

Via northabout course through Lake Michigan 662

OLD MACKINAC POINT.....387

Miles

PORTE DES MORTS PASSAGE, Pilot Island Light 511
via northabout course through Lake Michigan.

ROCK ISLAND PASSAGE, Red Gas Buoy No. 2.....493
via northabout course through Lake Michigan.

SHEBOYGAN, WIS., Breakwater Light..599
Via northabout course through Lake Michigan 613

SOUTH CHICAGO, ILL., Pierhead Light.719
Via northabout course through Lake Michigan 739

TO PRINCIPAL POINTS ON LAKE HURON

Via up bound course through Detroit River. For down bound distances see reverse courses.

Miles

DEPOT HARBOR, ONT.....390

Miles

DETOUR 361
via up bound course through Lake Huron. For down bound distance see reverse course.

FORT GRATIOT LIGHT. 143

HARBOR BEACH, MICH., North Main Light 205

OLD MACKINAC POINT. 387
via up bound course through Lake Huron. For down bound distance see reverse course.

OWEN SOUND, ONT. 386

PARRY SOUND, ONT. 394

ROGERS CITY, MICH. 335
via up bound course through Lake Huron. For down bound distance see reverse course.

TO PRINCIPAL POINTS ON ST. CLAIR & DETROIT RIVERS

Via up bound course through Detroit River. For down bound distances see reverse courses.

Miles

AMHERSTBURG, ONT. 61

	Miles
BAR POINT EAST CHANNEL GAS & BELL BUOY No. 2	52
DETROIT, MICH., Foot Woodward Ave.	79
MARINE CITY, MICH	121
PORT HURON, MICH. (Black River) & SARNIA, ONT.	140
WYANDOTTE, MICH.	69

TO PRINCIPAL POINTS ON LAKE ONTARIO

	Miles
ALEXANDRIA BAY, N. Y., Docks	375
CAPE VINCENT, N. Y., Breakwater Lights	348
CHARLOTTE, N. Y., Genesee Lights	280
OGDENSBURG, N. Y., Ogdensburg Light	408

Miles

OSWEGO, N. Y., Oswego Light.....330

PORT DALHOUSIE, ONT., Front Range Light 186

PORT WELLER, ONT.....186

TORONTO, ONT., Docks.....217

LONG POINT

TO POINTS ON LAKE ERIE

	Miles
ASHTABULA, OHIO, Outer Entrance...	57
BAR POINT EAST CHANNEL GAS & BELL BUOY No. 2.....	170
BUFFALO, N. Y., Buffalo Light.....	64
CLEVELAND, OHIO, E. Pier Light.....	113
CONNEAUT, OHIO, Outer Entrance.....	46
DUNKIRK, N. Y., Pierhead Light.....	37
ERIE, PA., Presque Isle Pierhead Light...	26
FAIRPORT, OHIO, Outer Entrance.....	83
HURON, OHIO, Huron Light.....	151
LORAIN, OHIO, West Pier Light.....	133

Miles

MIDDLE ISLAND 148

MONROE, MICH. 179

PORT BURWELL, ONT..... 42

PORT COLBORNE, ONT..... 47

PORT DOVER, ONT..... 21

PORT STANLEY, ONT..... 51

RONDEAU, ONT. 98

SANDUSKY, OHIO, E. End Dock Channel 157

SOUTHEAST SHOAL 134

SOUTH PASSAGE 153

TOLEDO, OHIO, Manhattan Front Range Light 189

TONAWANDA, N. Y., Docks..... 73

VERMILION, OHIO, West Pier Light. 142

TO PRINCIPAL POINTS ON LAKE SUPERIOR

Via up bound courses through Detroit and St. Marys rivers and Lake Huron. For down bound distances see reverse courses.

Miles

ASHLAND, WIS., Wharf Front.....876
via up bound course through Lake Superior. For down bound distance see reverse course.

DULUTH, MINN., Piers.....921
via up bound course through Lake Superior. For down bound distance see reverse course.

FORT WILLIAM, ONT., Black Gas Buoy.801
via up bound course through Lake Superior. For down bound distance see reverse course.

HOUGHTON & HANCOCK, MICH.....749

JACKFISH, ONT......736
via up bound course through Lake Superior. For down bound distance see reverse course.

MARQUETTE, MICH., Breakwater Light.686
via up bound course through Lake Superior. For down bound distance see reverse course.

Miles

PORT ARTHUR, ONT., Red Gas Buoy...802
via up bound course through Lake Superior. For down bound distance see reverse course.

SUPERIOR, WIS., Entry.....919
via up bound course through Lake Superior. For down bound distance see reverse course.

TWO HARBORS, MINN., Breakwater Light.....897
via up bound course through Lake Superior. For down bound distance see reverse course.

WHITEFISH POINT 569

TO POINTS ON ST. MARYS RIVER

Miles

SOO LOCKS, American.....527
via up bound courses through Detroit and St. Marys rivers and Lake Huron. For down bound distance see reverse course.

TO PRINCIPAL POINTS ON LAKE MICHIGAN

Via up bound courses through Detroit River and Lake Huron. For down bound distances see reverse courses.

Miles

CHICAGO, ILL., Pierhead Range Light..828

Via northabout course through Lake Michigan 849

ESCANABA, MICH., West Light.....634
via northabout course and St. Martin Island Passage.

GARY, IND. 841

Via northabout course through Lake Michigan 862

GLADSTONE, MICH. 641
via northabout course and St. Martin Island Passage.

GREEN BAY, WIS., River Mouth.....702
via northabout course and Rock Island Passage.

MILWAUKEE, WIS., Pierhead Range Light 763

Via northabout course through Lake Michigan 780

OLD MACKINAC POINT.....505

Miles

PORTE DES MORTS PASSAGE, Pilot Island Light 629
via northabout course through Lake Michigan.

ROCK ISLAND PASSAGE, Red Gas Buoy No. 2.....611
via northabout course through Lake Michigan.

SHEBOYGAN, WIS., Breakwater Light..717
Via northabout course through Lake Michigan 731

SOUTH CHICAGO, ILL., Pierhead Light.837
Via northabout course through Lake Michigan 857

TO PRINCIPAL POINTS ON LAKE HURON

Via up bound course through Detroit River. For down bound distances see reverse courses.

Miles

DEPOT HARBOR, ONT.....508

DETOUR 479
via up bound course through Lake Huron. For down bound distance see reverse course.

Miles

FORT GRATIOT LIGHT.....261

HARBOR BEACH, MICH., North Main Light 323

OLD MACKINAC POINT.....505
via up bound course through Lake Huron. For down bound distance see reverse course.

OWEN SOUND, ONT.....504

PARRY SOUND, ONT.....512

ROGERS CITY, MICH.....453
via up bound course through Lake Huron. For down bound distance see reverse course.

TO PRINCIPAL POINTS ON ST. CLAIR & DETROIT RIVERS

Via up bound course through Detroit River. For down bound distances see reverse courses.

Miles

AMHERSTBURG, ONT. 179

BAR POINT EAST CHANNEL GAS & BELL BUOY No. 2.....170

Miles

DETROIT, MICH., Foot Woodward Ave..197

MARINE CITY, MICH.....239

PORT HURON, MICH. (Black River) & SARNIA, ONT. 258

WYANDOTTE, MICH. 187

TO PRINCIPAL POINTS ON LAKE ONTARIO

Miles

ALEXANDRIA BAY, N. Y., Docks.....264

CAPE VINCENT, N. Y., Breakwater Lights 237

CHARLOTTE, N. Y., Genesee Lights....169

OGDENSBURG, N. Y., Ogdensburg Light 297

OSWEGO, N. Y., Oswego Light.....219

PORT DALHOUSIE, ONT., Front Range Light 75

PORT WELLER, ONT..... 75

TORONTO, ONT., Docks.....106

LORAIN, OHIO
West Pier Light

TO POINTS ON LAKE ERIE

	Miles
ASHTABULA, OHIO, Outer Entrance...	81
BAR POINT EAST CHANNEL GAS & BELL BUOY No. 2.....	64
BUFFALO, N. Y., Buffalo Light.....	196
CLEVELAND, OHIO, E. Pier Light.....	27
CONNEAUT, OHIO, Outer Entrance.....	94
DUNKIRK, N. Y., Pierhead Light.....	165
ERIE, PA., Presque Isle Pierhead Light...	123
FAIRPORT, OHIO, Outer Entrance.....	54
HURON, OHIO, Huron Light.....	20

	Miles
LONG POINT	133
MIDDLE ISLAND	29
MONROE, MICH.	68
PORT BURWELL, ONT.	109
PORT COLBORNE, ONT.	179
PORT DOVER, ONT.	154
PORT STANLEY, ONT.	97
RONDEAU, ONT.	57
SANDUSKY, OHIO, E. End Dock Channel	29
SOUTHEAST SHOAL	28
SOUTH PASSAGE	28
TOLEDO, OHIO, Manhattan Front Range Light	72
TONAWANDA, N. Y., Docks	208
VERMILION, OHIO, West Pier Light	11

TO PRINCIPAL POINTS ON LAKE SUPERIOR

Via up bound courses through Detroit and St. Marys rivers and Lake Huron. For down bound distances see reverse courses.

Miles

ASHLAND, WIS., Wharf Front.....770
via up bound course through Lake Superior. For down bound distance see reverse course.

DULUTH, MINN., Piers.....815
via up bound course through Lake Superior. For down bound distance see reverse course.

FORT WILLIAM, ONT., Black Gas Buoy.695
via up bound course through Lake Superior. For down bound distance see reverse course.

HOUGHTON & HANCOCK, MICH.....643

JACKFISH, ONT. 630
via up bound course through Lake Superior. For down bound distance see reverse course.

MARQUETTE, MICH., Breakwater Light.580

PORT ARTHUR, ONT., Red Gas Buoy...696
via up bound course through Lake Superior. For down bound distance see reverse course.

Miles

SUPERIOR, WIS., Entry.....813
via up bound course through Lake Superior. For down bound distance see reverse course.

TWO HARBORS, MINN., Breakwater Light.....791
via up bound course through Lake Superior. For down bound distance see reverse course.

WHITEFISH POINT.....463

TO POINTS ON ST. MARYS RIVER

Miles

SOO LOCKS, American.....421
via up bound courses through Detroit and St. Marys rivers and Lake Huron. For down bound distance see reverse course.

TO PRINCIPAL POINTS ON LAKE MICHIGAN

Via up bound courses through Detroit River and Lake Huron. For down bound distances see reverse courses.

Miles

CHICAGO, ILL., Pierhead Range Light...722

Via northabout course through Lake Michigan 743

ESCANABA, MICH., West Light.....528
via northabout course and St. Martin Island Passage.

GARY, IND. 735

Via northabout course through Lake Michigan 756

GLADSTONE, MICH. 535
via northabout course and St. Martin Island Passage.

GREEN BAY, WIS., River Mouth.....596
via northabout course and Rock Island Passage.

MILWAUKEE, WIS., Pierhead Range Light 657

Via northabout course through Lake Michigan 674

OLD MACKINAC POINT.....399

Miles

PORTE DES MORTS PASSAGE, Pilot Island Light 523
via northabout course through Lake Michigan.

ROCK ISLAND PASSAGE, Red Gas Buoy No. 2.....505
via northabout course through Lake Michigan.

SHEBOYGAN, WIS., Breakwater Light..611
Via northabout course through Lake Michigan 625

SOUTH CHICAGO, ILL., Pierhead Light.731
Via northabout course through Lake Michigan 751

TO PRINCIPAL POINTS ON LAKE HURON

Via up bound course through Detroit River. For down bound distances see reverse courses.

Miles

DEPOT HARBOR, ONT.....402

DETOUR 373
via up bound course through Lake Huron. For down bound distance see reverse course.

Miles

FORT GRATIOT LIGHT.....155

HARBOR BEACH, MICH., North Main Light.....217

OLD MACKINAC POINT.....399
via up bound course through Lake Huron. For down bound distance see reverse course.

OWEN SOUND, ONT.....398

PARRY SOUND, ONT.....406

ROGERS CITY, MICH.....347
via up bound course through Lake Huron. For down bound distance see reverse course.

TO PRINCIPAL POINTS ON ST. CLAIR & DETROIT RIVERS

Via up bound course through Detroit River. For down bound distances see reverse courses.

Miles

AMHERSTBURG, ONT. 73

BAR POINT EAST CHANNEL GAS & BELL BUOY No. 2..... 64

	Miles
DETROIT, MICH., Foot Woodward Ave..	91
MARINE CITY, MICH.	133
PORT HURON, MICH. (Black River) & SARNIA, ONT.	152
WYANDOTTE, MICH.	81

TO PRINCIPAL POINTS ON LAKE ONTARIO

	Miles
ALEXANDRIA BAY, N. Y., Docks	396
CAPE VINCENT, N. Y., Breakwater Lights	369
CHARLOTTE, N. Y., Genesee Lights	301
OGDENSBURG, N. Y., Ogdensburg Light	429
OSWEGO, N. Y., Oswego Light	351
PORT DALHOUSIE, ONT., Front Range Light	207
PORT WELLER, ONT.	207
TORONTO, ONT., Docks	238

MIDDLE ISLAND

TO POINTS ON LAKE ERIE

	Miles
ASHTABULA, OHIO, Outer Entrance	100
BAR POINT EAST CHANNEL GAS & BELL BUOY No. 2	36
BUFFALO, N. Y., Buffalo Light	212
CLEVELAND, OHIO, E. Pier Light	52
CONNEAUT, OHIO, Outer Entrance	114
DUNKIRK, N. Y., Pierhead Light	181
ERIE, PA., Presque Isle Pierhead Light	141
FAIRPORT, OHIO, Outer Entrance	75
HURON, OHIO, Huron Light	21
LONG POINT	148

	Miles
LORAIN, OHIO, West Pier Light	29
MONROE, MICH.	39
PORT BURWELL, ONT	118
PORT COLBORNE, ONT	195
PORT DOVER, ONT	169
PORT STANLEY, ONT	102
RONDEAU, ONT.	57
SANDUSKY, OHIO, E. End Dock Channel	16
SOUTHEAST SHOAL	15
SOUTH PASSAGE	10
TOLEDO, OHIO, Manhattan Front Range Light	43
TONAWANDA, N. Y., Docks	224
VERMILION, OHIO, West Pier Light	24

MONROE, MICH.

TO POINTS ON LAKE ERIE

	Miles
ASHTABULA, OHIO, Outer Entrance	134
BAR POINT EAST CHANNEL GAS & BELL BUOY No. 2	13
BUFFALO, N. Y., Buffalo Light	243
CLEVELAND, OHIO, E. Pier Light	91
CONNEAUT, OHIO, Outer Entrance	147
DUNKIRK, N. Y., Pierhead Light	214
ERIE, PA., Presque Isle, Pierhead Light	174
FAIRPORT, OHIO, Outer Entrance	109
HURON, OHIO, Huron Light	54
LONG POINT	179

	Miles
LORAIN, OHIO, West Pier Light	68
MIDDLE ISLAND	39
PORT BURWELL, ONT	149
PORT COLBORNE, ONT	227
PORT DOVER, ONT	201
PORT STANLEY, ONT	133
RONDEAU, ONT.	88
SANDUSKY, OHIO, E. End Dock Channel	47
SOUTHEAST SHOAL	46
SOUTH PASSAGE	40
TOLEDO, OHIO, Manhattan Front Range Light	18
TONAWANDA, N. Y., Docks	255
VERMILION, OHIO, West Pier Light	61

PORT BURWELL, ONT.

TO POINTS ON LAKE ERIE

	Miles
ASHTABULA, OHIO, Outer Entrance	51
BAR POINT EAST CHANNEL GAS & BELL BUOY No. 2	139
BUFFALO, N. Y., Buffalo Light	105
CLEVELAND, OHIO, E. Pier Light	93
CONNEAUT, OHIO, Outer Entrance	48
DUNKIRK, N. Y., Pierhead Light	77
ERIE, PA., Presque Isle Pierhead Light	52
FAIRPORT, OHIO, Outer Entrance	66
HURON, OHIO, Huron Light	125
LONG POINT	42

Port Burwell, Ont.—Cont.

	Miles
LORAIN, OHIO, W. Pier Light	109
MIDDLE ISLAND	118
MONROE, MICH.	149
PORT COLBORNE, ONT	88
PORT DOVER, ONT	62
PORT STANLEY, ONT	22
RONDEAU, ONT.	65
SANDUSKY, OHIO, E. End Dock Channel	128
SOUTHEAST SHOAL	103
SOUTH PASSAGE	124
TOLEDO, OHIO, Manhattan Front Range Light	158
TONAWANDA, N. Y., Docks	117
VERMILION, OHIO, West Pier Light	117

PORT COLBORNE, ONT.

TO POINTS ON LAKE ERIE

	Miles
ASHTABULA, OHIO, Outer Entrance	104
BAR POINT EAST CHANNEL GAS & BELL BUOY No. 2	217
BUFFALO, N. Y., Buffalo Light	21
CLEVELAND, OHIO, E. Pier Light	160
CONNEAUT, OHIO, Outer Entrance	92
DUNKIRK, N. Y., Pierhead Light	27
ERIE, PA., Presque Isle Pierhead Light	65
FAIRPORT, OHIO, Outer Entrance	130
HURON, OHIO, Huron Light	158
LONG POINT	47

	Miles
LORAIN, OHIO, W. Pier Light	179
MIDDLE ISLAND	195
MONROE, MICH.	227
PORT BURWELL, ONT	88
PORT DOVER, ONT	52
PORT STANLEY, ONT	108
RONDEAU, ONT.	146
SANDUSKY, OHIO, E. End Dock Channel	203
SOUTHEAST SHOAL	181
SOUTH PASSAGE	200
TOLEDO, OHIO, Manhattan Front Range Light	236
TONAWANDA, N. Y., Docks	33
VERMILION, OHIO, West Pier Light	189

TO PRINCIPAL POINTS ON LAKE SUPERIOR

Via up bound courses through Detroit and St. Marys rivers and Lake Huron. For down bound distances see reverse courses.

Miles

ASHLAND, WIS., Wharf Front.....923
via up bound course through Lake Superior. For down bound distance see reverse course.

DULUTH, MINN., Piers.....968
via up bound course through Lake Superior. For down bound distance see reverse course.

FORT WILLIAM, ONT., Black Gas Buoy.848
via up bound course through Lake Superior. For down bound distance see reverse course.

HOUGHTON & HANCOCK, MICH.....796

JACKFISH, ONT. 783
via up bound course through Lake Superior. For down bound distance see reverse course.

MAROUETTE, MICH., Breakwater Light.733

PORT ARTHUR, ONT., Red Gas Buoy...849
via up bound course through Lake Superior. For down bound distance see reverse course.

Miles

SUPERIOR, WIS., Entry.....966
via up bound course through Lake Superior. For down bound distance see reverse course.

TWO HARBORS, MINN., Breakwater Light.....944
via up bound course through Lake Superior. For down bound distance see reverse course.

WHITEFISH POINT.....616

TO POINTS ON ST. MARYS RIVER

Miles

SOO LOCKS, American.....574
via up bound courses through Detroit and St. Marys rivers and Lake Huron. For down bound distance see reverse course.

TO PRINCIPAL POINTS ON LAKE MICHIGAN

Via up bound courses through Detroit River and Lake Huron. For down bound distances see reverse courses.

Miles

CHICAGO, ILL., Pierhead Range Light..875

Via northabout course through Lake Michigan 896

ESCANABA, MICH., West Light.....681
via northabout course and St. Martin Island Passage.

GARY, IND. 888

Via northabout course through Lake Michigan 909

GLADSTONE, MICH. 688
via northabout course and St. Martin Island Passage.

GREEN BAY, WIS., River Mouth.....749
via northabout course and Rock Island Passage.

MILWAUKEE, WIS., Pierhead Range Light 810

Via northabout course through Lake Michigan 827

OLD MACKINAC POINT.....552

Miles

PORTE DES MORTS PASSAGE, Pilot Island Light 676
via northabout course through Lake Michigan.

ROCK ISLAND PASSAGE, Red Gas Buoy No. 2.....658
via northabout course through Lake Michigan.

SHEBOYGAN, WIS., Breakwater Light..764
Via northabout course through Lake Michigan 778

SOUTH CHICAGO, ILL., Pierhead Light.884
Via northabout course through Lake Michigan 904

TO PRINCIPAL POINTS ON LAKE HURON

Via up bound course through Detroit River. For down bound distances see reverse courses.

Miles

DEPOT HARBOR, ONT.....555

DETOUR 526
via up bound course through Lake Huron. For down bound distance see reverse course.

Miles

FORT GRATIOT LIGHT.....308

HARBOR BEACH, MICH., North Main Light.....370

OLD MACKINAC POINT.....552
via up bound course through Lake Huron. For down bound distance see reverse course.

OWEN SOUND, ONT.....551

PARRY SOUND, ONT.....559

ROGERS CITY, MICH.....500
via up bound course through Lake Huron. For down bound distance see reverse course.

TO PRINCIPAL POINTS ON ST. CLAIR & DETROIT RIVERS

Via up bound course through Detroit River. For down bound distances see reverse courses.

Miles

AMHERSTBURG, ONT. 226

BAR POINT EAST CHANNEL GAS & BELL BUOY No. 2.....217

	Miles
DETROIT, MICH., Foot Woodward Ave.	244
MARINE CITY, MICH.	286
PORT HURON, MICH. (Black River) & SARNIA, ONT.	305
WYANDOTTE, MICH.	234

TO PRINCIPAL POINTS ON LAKE ONTARIO

	Miles
ALEXANDRIA BAY, N. Y., Docks	217
CAPE VINCENT, N. Y., Breakwater Lights	190
CHARLOTTE, N. Y., Genesee Lights	122
OGDENSBURG, N. Y., Ogdensburg Light	250
OSWEGO, N. Y., Oswego Light	172
PORT DALHOUSIE, ONT., Front Range Light	28
PORT WELLER, ONT.	28
TORONTO, ONT., Docks	59

PORT DOVER, ONT.

TO POINTS ON LAKE ERIE

	Miles
ASHTABULA, OHIO, Outer Entrance	78
BAR POINT EAST CHANNEL GAS & BELL BUOY No. 2	191
BUFFALO, N. Y., Buffalo Light	72
CLEVELAND, OHIO, E. Pier Light	134
CONNEAUT, OHIO, Outer Entrance	68
DUNKIRK, N. Y., Pierhead Light	49
ERIE, PA., Presque Isle Pierhead Light	47
FAIRPORT, OHIO, Outer Entrance	104
HURON, OHIO, Huron Light	172
LONG POINT	21

Miles

LORAIN, OHIO, W. Pier Light.....154

MIDDLE ISLAND 169

MONROE, MICH. 201

PORT BURWELL, ONT..... 62

PORT COLBORNE, ONT..... 52

PORT STANLEY, ONT..... 82

RONDEAU, ONT. 119

SANDUSKY, OHIO, E. End Dock Channel 177

SOUTHEAST SHOAL 155

SOUTH PASSAGE 174

TOLEDO, OHIO, Manhattan Front Range Light 210

TONAWANDA, N. Y., Docks..... 84

VERMILION, OHIO, West Pier Light...163

PORT STANLEY, ONT.

TO POINTS ON LAKE ERIE

	Miles
ASHTABULA, OHIO, Outer Entrance	56
BAR POINT EAST CHANNEL GAS & BELL BUOY No. 2	124
BUFFALO, N. Y., Buffalo Light	125
CLEVELAND, OHIO, E. Pier Light	85
CONNEAUT, OHIO, Outer Entrance	58
DUNKIRK, N. Y., Pierhead Light	97
ERIE, PA., Presque Isle Pierhead Light	70
FAIRPORT, OHIO, Outer Entrance	62
HURON, OHIO, Huron Light	111
LONG POINT	51

Miles

LORAIN, OHIO, W. Pier Light..... 97

MIDDLE ISLAND 102

MONROE, MICH. 133

PORT BURWELL, ONT..... 22

PORT COLBORNE, ONT.....108

PORT DOVER, ONT..... 82

RONDEAU, ONT. 48

SANDUSKY, OHIO, E. End Dock Channel 114

SOUTHEAST SHOAL 88

SOUTH PASSAGE 109

TOLEDO, OHIO, Manhattan Front Range Light 143

TONAWANDA, N. Y., Docks.....137

VERMILION, OHIO, West Pier Light...104

RONDEAU, ONT.

TO POINTS ON LAKE ERIE

	Miles
ASHTABULA, OHIO, Outer Entrance...	63
BAR POINT EAST CHANNEL GAS & BELL BUOY No. 2.....	79
BUFFALO, N. Y., Buffalo Light.....	162
CLEVELAND, OHIO, E. Pier Light.....	53
CONNEAUT, OHIO, Outer Entrance....	74
DUNKIRK, N. Y., Pierhead Light.....	133
ERIE, PA., Presque Isle Pierhead Light...	98
FAIRPORT, OHIO, Outer Entrance.....	47
HURON, OHIO, Huron Light.....	68
LONG POINT	98

Rondeau, Ont.—Cont.

	Miles
LORAIN, OHIO, W. Pier Light	57
MIDDLE ISLAND	57
MONROE, MICH.	88
PORT BURWELL, ONT	65
PORT COLBORNE, ONT	146
PORT DOVER, ONT	119
PORT STANLEY, ONT	48
SANDUSKY, OHIO, E. End Dock Channel	69
SOUTHEAST SHOAL	43
SOUTH PASSAGE	64
TOLEDO, OHIO, Manhattan Front Range Light	97
TONAWANDA, N. Y., Docks	174
VERMILION, OHIO, W. Pier Light	62

SANDUSKY, OHIO
E. End Dock Channel

TO POINTS ON LAKE ERIE

	Miles
ASHTABULA, OHIO, Outer Entrance	106
BAR POINT EAST CHANNEL GAS & BELL BUOY No. 2	45
BUFFALO, N. Y., Buffalo Light	220
CLEVELAND, OHIO, E. Pier Light	55
CONNEAUT, OHIO, Outer Entrance	120
DUNKIRK, N. Y., Pierhead Light	190
ERIE, PA., Presque Isle Pierhead Light	148
FAIRPORT, OHIO, Outer Entrance	80
HURON, OHIO, Huron Light	14

Sandusky, Ohio—Cont.

	Miles
LONG POINT	157
LORAIN, OHIO, W. Pier Light	29
MIDDLE ISLAND	16
MONROE, MICH.	47
PORT BURWELL, ONT	128
PORT COLBORNE, ONT	203
PORT DOVER, ONT	177
PORT STANLEY, ONT	114
RONDEAU, ONT.	69
SOUTHEAST SHOAL	28
SOUTH PASSAGE	8
TOLEDO, OHIO, Manhattan Front Range Light	52
TONAWANDA, N. Y., Docks	232
VERMILION, OHIO, W. Pier Light	21

TO PRINCIPAL POINTS ON LAKE SUPERIOR

Via up bound courses through Detroit and St. Marys rivers and Lake Huron. For down bound distances see reverse courses.

Miles

ASHLAND, WIS., Wharf Front.....751
via up bound course through Lake Superior. For down bound distance see reverse course.

DULUTH, MINN., Piers.....796
via up bound course through Lake Superior. For down bound distance see reverse course.

FORT WILLIAM, ONT., Black Gas Buoy.676
via up bound course through Lake Superior. For down bound distance see reverse course.

HOUGHTON & HANCOCK, MICH.....624

JACKFISH, ONT. 611
via up bound course through Lake Superior. For down bound distance see reverse course.

MARQUETTE, MICH., Breakwater Light.561

PORT ARTHUR, ONT., Red Gas Buoy...677
via up bound course through Lake Superior. For down bound distance see reverse course.

Miles

SUPERIOR, WIS., Entry.....794
via up bound course through Lake Superior. For down bound distance see reverse course.

TWO HARBORS, MINN., Breakwater Light.....772
via up bound course through Lake Superior. For down bound distance see reverse course.

WHITEFISH POINT.....444

TO POINTS ON ST. MARYS RIVER

Miles

SOO LOCKS, American.....402
via up bound courses through Detroit and St. Marys rivers and Lake Huron. For down bound distance see reverse course.

TO PRINCIPAL POINTS ON LAKE MICHIGAN

Via up bound courses through Detroit River and Lake Huron. For down bound distances see reverse courses.

Miles

CHICAGO, ILL., Pierhead Range Light..703

Via northabout course through Lake Michigan 724

ESCANABA, MICH., West Light.....509
via northabout course and St. Martin Island Passage.

GARY, IND. 716

Via northabout course through Lake Michigan 737

GLADSTONE, MICH. 516
via northabout course and St. Martin Island Passage.

GREEN BAY, WIS., River Mouth.....577
via northabout course and Rock Island Passage.

MILWAUKEE, WIS., Pierhead Range Light 638

Via northabout course through Lake Michigan 655

OLD MACKINAC POINT.....380

Miles

PORTE DES MORTS PASSAGE, Pilot Island Light 504
via northabout course through Lake Michigan.

ROCK ISLAND PASSAGE, Red Gas Buoy No. 2.....486
via northabout course through Lake Michigan.

SHEBOYGAN, WIS., Breakwater Light..592
Via northabout course through Lake Michigan 606

SOUTH CHICAGO, ILL., Pierhead Light.712
Via northabout course through Lake Michigan 732

TO PRINCIPAL POINTS ON LAKE HURON

Via up bound course through Detroit River. For down bound distances see reverse courses.

Miles

DEPOT HARBOR, ONT.....383

DETOUR 354
via up bound course through Lake Huron. For down bound distance see reverse course.

Miles

FORT GRATIOT LIGHT.....136

HARBOR BEACH, MICH., North Main Light 198

OLD MACKINAC POINT.....380
via up bound course through Lake Huron. For down bound distance see reverse course.

OWEN SOUND, ONT.....379

PARRY SOUND, ONT.....387

ROGERS CITY, MICH.....328
via up bound course through Lake Huron. For down bound distance see reverse course.

TO PRINCIPAL POINTS ON ST. CLAIR & DETROIT RIVERS

Via up bound course through Detroit River. For down bound distances see reverse courses.

Miles

AMHERSTBURG, ONT. 54

BAR POINT EAST CHANNEL GAS & BELL BUOY No. 2..... 45

	Miles
DETROIT, MICH., Foot Woodward Ave..	72
MARINE CITY, MICH.	114
PORT HURON, MICH. (Black River) & SARNIA, ONT.	133
WYANDOTTE, MICH.	62

TO PRINCIPAL POINTS ON LAKE ONTARIO

	Miles
ALEXANDRIA BAY, N. Y., Docks	420
CAPE VINCENT, N. Y., Breakwater Lights	393
CHARLOTTE, N. Y., Genesee Lights	325
OGDENSBURG, N. Y., Ogdensburg Light	453
OSWEGO, N. Y., Oswego Light	375
PORT DALHOUSIE, ONT., Front Range Light	231
PORT WELLER, ONT.	231
TORONTO, ONT., Docks	262

SOUTHEAST SHOAL

TO POINTS ON LAKE ERIE

	Miles
ASHTABULA, OHIO, Outer Entrance	88
BAR POINT EAST CHANNEL GAS & BELL BUOY No. 2	36
BUFFALO, N. Y., Buffalo Light	198
CLEVELAND, OHIO, E. Pier Light	45
CONNEAUT, OHIO, Outer Entrance	101
DUNKIRK, N. Y., Pierhead Light	167
ERIE, PA., Presque Isle Pierhead Light	129
FAIRPORT, OHIO, Outer Entrance	63
HURON, OHIO, Huron Light	29
LONG POINT	134

Southeast Shoal—Cont.

	Miles
LORAIN, OHIO, W. Pier Light	28
MIDDLE ISLAND	15
MONROE, MICH.	46
PORT BURWELL, ONT	103
PORT COLBORNE, ONT	181
PORT DOVER, ONT	155
PORT STANLEY, ONT	88
RONDEAU, ONT.	43
SANDUSKY, OHIO, E. End Dock Channel	28
SOUTH PASSAGE	22
TOLEDO, OHIO, Manhattan Front Range Light	55
TONAWANDA, N. Y., Docks	209
VERMILION, OHIO, W. Pier Light	27

SOUTH PASSAGE

TO POINTS ON LAKE ERIE

	Miles
ASHTABULA, OHIO, Outer Entrance	104
BAR POINT EAST CHANNEL GAS & BELL BUOY No. 2	37
BUFFALO, N. Y., Buffalo Light	216
CLEVELAND, OHIO, E. Pier Light	53
CONNEAUT, OHIO, Outer Entrance	117
DUNKIRK, N. Y., Pierhead Light	186
ERIE, PA., Presque Isle Pierhead Light	145
FAIRPORT, OHIO, Outer Entrance	78
HURON, OHIO, Huron Light	15
LONG POINT	153

	Miles
LORAIN, OHIO, W. Pier Light	28
MIDDLE ISLAND	10
MONROE, MICH.	40
PORT BURWELL, ONT	124
PORT COLBORNE, ONT	200
PORT DOVER, ONT	174
PORT STANLEY, ONT	109
RONDEAU, ONT.	64
SANDUSKY, OHIO, E. End Dock Channel	8
SOUTHEAST SHOAL	22
TOLEDO, OHIO, Manhattan Front Range Light	44
TONAWANDA, N. Y., Docks	228
VERMILION, OHIO, W. Pier Light	21

TOLEDO, OHIO

Manhattan Front Range Light

TO POINTS ON LAKE ERIE

	Miles
ASHTABULA, OHIO, Outer Entrance	143
BAR POINT EAST CHANNEL GAS & BELL BUOY No. 2	27
BUFFALO, N. Y., Buffalo Light	253
CLEVELAND, OHIO, E. Pier Light	97
CONNEAUT, OHIO, Outer Entrance	156
DUNKIRK, N. Y., Pierhead Light	223
ERIE, PA., Presque Isle Pierhead Light	184
FAIRPORT, OHIO, Outer Entrance	118
HURON, OHIO, Huron Light	58

Toledo, Ohio—Cont.

	Miles
LONG POINT	189
LORAIN, OHIO, W. Pier Light	72
MIDDLE ISLAND	43
MONROE, MICH.	18
PORT BURWELL, ONT	158
PORT COLBORNE, ONT	236
PORT DOVER, ONT	210
PORT STANLEY, ONT	143
RONDEAU, ONT.	97
SANDUSKY, OHIO, E. End Dock Channel	52
SOUTHEAST SHOAL	55
SOUTH PASSAGE	44
TONAWANDA, N. Y., Docks	264
VERMILION, OHIO, W. Pier Light	65

TO PRINCIPAL POINTS ON LAKE SUPERIOR

Via up bound courses through Detroit and St. Marys rivers and Lake Huron. For down bound distances see reverse courses.

Miles

ASHLAND, WIS., Wharf Front.....733
via up bound course through Lake Superior. For down bound distance see reverse course.

DULUTH, MINN., Piers.....778
via up bound course through Lake Superior. For down bound distance see reverse course.

FORT WILLIAM, ONT., Black Gas Buoy.658
via up bound course through Lake Superior. For down bound distance see reverse course.

HOUGHTON & HANCOCK, MICH.....606

JACKFISH, ONT. 593
via up bound course through Lake Superior. For down bound distance see reverse course.

MARQUETTE, MICH., Breakwater Light.543

PORT ARTHUR, ONT., Red Gas Buoy...659
via up bound course through Lake Superior. For down bound distance see reverse course.

Miles

SUPERIOR, WIS., Entry.....776
via up bound course through Lake Superior. For down bound distance see reverse course.

TWO HARBORS, MINN., Breakwater Light.....754
via up bound course through Lake Superior. For down bound distance see reverse course.

WHITEFISH POINT.....426

TO POINTS ON ST. MARYS RIVER

Miles

SOO LOCKS, American.....384
via up bound courses through Detroit and St. Marys rivers and Lake Huron. For down bound distance see reverse course.

TO PRINCIPAL POINTS ON LAKE MICHIGAN

Via up bound courses through Detroit River and Lake Huron. For down bound distances see reverse courses.

Miles

CHICAGO, ILL., Pierhead Range Light..685

Via northabout course through Lake Michigan 706

ESCANABA, MICH., West Light.....491
via northabout course and St. Martin Island Passage.

GARY, IND. 698

Via northabout course through Lake Michigan 719

GLADSTONE, MICH. 498
via northabout course and St. Martin Island Passage.

GREEN BAY, WIS., River Mouth.....559
via northabout course and Rock Island Passage.

MILWAUKEE, WIS., Pierhead Range Light 620

Via northabout course through Lake Michigan 637

OLD MACKINAC POINT.....362

Miles

PORTE DES MORTS PASSAGE, Pilot Island Light 486
via northabout course through Lake Michigan.

ROCK ISLAND PASSAGE, Red Gas Buoy No. 2.....468
via northabout course through Lake Michigan.

SHEBOYGAN, WIS., Breakwater Light..574
Via northabout course through Lake Michigan 588

SOUTH CHICAGO, ILL., Pierhead Light.694
Via northabout course through Lake Michigan 714

TO PRINCIPAL POINTS ON LAKE HURON

Via up bound course through Detroit River. For down bound distances see reverse courses.

Miles

DEPOT HARBOR, ONT.....365

DETOUR 336
via up bound course through Lake Huron. For down bound distance see reverse course.

Miles

FORT GRATIOT LIGHT.....118

HARBOR BEACH, MICH., North Main Light 180

OLD MACKINAC POINT.....362
via up bound course through Lake Huron. For down bound distance see reverse course.

OWEN SOUND, ONT.....361

PARRY SOUND, ONT.....369

ROGERS CITY, MICH.....310
via up bound course through Lake Huron. For down bound distance see reverse course.

TO PRINCIPAL POINTS ON ST. CLAIR & DETROIT RIVERS

Via up bound course through Detroit River. For down bound distances see reverse courses.

Miles

AMHERSTBURG, ONT. 36

BAR POINT EAST CHANNEL GAS & BELL BUOY No. 2..... 27

	Miles
DETROIT, MICH., Foot Woodward Ave..	54
MARINE CITY, MICH	96
PORT HURON, MICH., (Black River) & SARNIA, ONT.	115
WYANDOTTE, MICH.	44

TO PRINCIPAL POINTS ON LAKE ONTARIO

	Miles
ALEXANDRIA BAY, N. Y., Docks	453
CAPE VINCENT, N. Y., Breakwater Lights	426
CHARLOTTE, N. Y., Genesee Lights	358
OGDENSBURG, N. Y., Ogdensburg Light	486
OSWEGO, N. Y., Oswego Light	408
PORT DALHOUSIE, ONT., Front Range Light	264
PORT WELLER, ONT	264
TORONTO, ONT., Docks	295

TONAWANDA, N. Y.
Docks

TO POINTS ON LAKE ERIE

	Miles
ASHTABULA, OHIO, Outer Entrance	130
BAR POINT EAST CHANNEL GAS & BELL BUOY No. 2	246
BUFFALO, N. Y., Buffalo Light	13
CLEVELAND, OHIO, E. Pier Light	187
CONNEAUT, OHIO, Outer Entrance	118
DUNKIRK, N. Y., Pierhead Light	48
ERIE, PA., Presque Isle Pierhead Light	90
FAIRPORT, OHIO, Outer Entrance	157
HURON, OHIO, Huron Light	226

	Miles
LONG POINT	73
LORAIN, OHIO, W. Pier Light	208
MIDDLE ISLAND	224
MONROE, MICH.	255
PORT BURWELL, ONT	117
PORT COLBORNE, ONT	33
PORT DOVER, ONT	84
PORT STANLEY, ONT	137
RONDEAU, ONT.	174
SANDUSKY, OHIO, E. End Dock Channel	232
SOUTHEAST SHOAL	209
SOUTH PASSAGE	228
TOLEDO, OHIO, Manhattan Front Range Light	264
VERMILION, OHIO, W. Pier Light	217

VERMILION, OHIO
W. Pier Light

TO POINTS ON LAKE ERIE

	Miles
ASHTABULA, OHIO, Outer Entrance	90
BAR POINT EAST CHANNEL GAS & BELL BUOY No. 2	58
BUFFALO, N. Y., Buffalo Light	205
CLEVELAND, OHIO, E. Pier Light	37
CONNEAUT, OHIO, Outer Entrance	104
DUNKIRK, N. Y., Pierhead Light	174
ERIE, PA., Presque Isle Pierhead Light	133
FAIRPORT, OHIO, Outer Entrance	64
HURON, OHIO, Huron Light	11

	Miles
LONG POINT	142
LORAIN, OHIO, West Pier Light	11
MIDDLE ISLAND	24
MONROE, MICH.	61
PORT BURWELL, ONT	117
PORT COLBORNE, ONT	189
PORT DOVER, ONT	163
PORT STANLEY, ONT	104
RONDEAU, ONT.	62
SANDUSKY, OHIO, E. End Dock Channel	21
SOUTHEAST SHOAL	27
SOUTH PASSAGE	21
TOLEDO, OHIO, Manhattan Front Range Light	65
TONAWANDA, N. Y., Docks	217

ALEXANDRIA BAY, N. Y.

Docks

TO POINTS ON LAKE ONTARIO

	Miles
CAPE VINCENT, N. Y., Breakwater Lights	26
CHARLOTTE, N. Y., Genesee Lights	115
FAIRHAVEN, N. Y., Front Range Light	85
HAMILTON, ONT., Docks	213
KINGSTON, ONT., Docks	33
LEWISTON, N. Y., Docks	188
NIAGARA-ON-THE-LAKE, ONT., Front Light	182
OGDENSBURG, N. Y., Ogdensburg Light	33

Miles

OSWEGO, N. Y., Oswego Light..... 75

PORT DALHOUSIE, ONT., Front Range Light 189

PORT WELLER, ONT.....187

SACKETTS HARBOR, N. Y., Docks..... 52

SODUS, N. Y., Outer Light..... 95

TORONTO, ONT., Docks.....186

NOTE: The following distances from Alexandria Bay are via Port Dalhousie. Distances via Port Weller are two miles less in each case.

TO PRINCIPAL POINTS ON LAKE SUPERIOR

Via up bound courses through Detroit and St. Marys rivers and Lake Huron. For down bound distances see reverse courses.

Miles

ASHLAND, WIS., Wharf Front.....1140
via up bound course through Lake Superior. For down bound distance see reverse course.

Miles

DULUTH, MINN., Piers.....1185
via up bound course through Lake Superior. For down bound distance see reverse course.

FORT WILLIAM, ONT., Black Gas Buoy 1065
via up bound course through Lake Superior. For down bound distance see reverse course.

HOUGHTON & HANCOCK, MICH....1013

JACKFISH, ONT. 1000
via up bound course through Lake Superior. For down bound distance see reverse course.

MARQUETTE, MICH., Breakwater Light.950

PORT ARTHUR, ONT., Red Gas Buoy..1066
via up bound course through Lake Superior. For down bound distance see reverse course.

SUPERIOR, WIS., Entry.....1183
via up bound course through Lake Superior. For down bound distance see reverse course.

TWO HARBORS, MINN., Breakwater Light 1161
via up bound course through Lake Superior. For down bound distance see reverse course.

WHITEFISH POINT 833

TO POINTS ON ST. MARYS RIVER

Miles

SOO LOCKS, American.....791
via up bound courses through Detroit and St. Marys rivers and Lake Huron. For down bound distance see reverse course.

TO PRINCIPAL POINTS ON LAKE MICHIGAN

Via up bound courses through Detroit River and Lake Huron. For down bound distances see reverse courses.

Miles

CHICAGO, ILL., Pierhead Range Light.1092
Via northabout course through Lake Michigan 1113

ESCANABA, MICH., West Light.....898
via northabout course and St. Martin Island Passage.

GARY, IND. 1105
Via northabout course through Lake Michigan 1126

Miles

GLADSTONE, MICH. 905
via northabout course and St. Martin Island Passage.

GREEN BAY, WIS., River Mouth.....966
via northabout course and Rock Island Passage.

MILWAUKEE, WIS., Pierhead Range Light 1027
Via northabout course through Lake Michigan 1044

OLD MACKINAC POINT.....769

PORTE DES MORTS PASSAGE, Pilot Island Light 893
via northabout course through Lake Michigan.

ROCK ISLAND PASSAGE, Red Gas Buoy No. 2.....875
via northabout course through Lake Michigan.

SHEBOYGAN, WIS., Breakwater Light..981
Via northabout course through Lake Michigan 995

SOUTH CHICAGO, ILL., Pierhead Light.1101
Via northabout course through Lake Michigan 1121

TO PRINCIPAL POINTS ON LAKE HURON

Via up bound course through Detroit River. For down bound distances see reverse courses.

	Miles
DEPOT HARBOR, ONT	772
DETOUR . via up bound course through Lake Huron. For down bound distance see reverse course.	743
FORT GRATIOT LIGHT	525
HARBOR BEACH, MICH., North Main Light	587
OLD MACKINAC POINT via up bound course through Lake Huron. For down bound distance see reverse course.	769
OWEN SOUND, ONT	768
PARRY SOUND, ONT	776
ROGERS CITY, MICH via up bound course through Lake Huron. For down bound distance see reverse course.	717

TO PRINCIPAL POINTS ON ST. CLAIR & DETROIT RIVERS

Via up bound course through Detroit River. For down bound distances see reverse courses.

	Miles
AMHERSTBURG, ONT.	443
BAR POINT EAST CHANNEL GAS & BELL BUOY No. 2	434
DETROIT, MICH., Foot Woodward Ave.	461
MARINE CITY, MICH	503
PORT HURON, MICH. (Black River) & SARNIA, ONT.	522
WYANDOTTE, MICH.	451

TO PRINCIPAL POINTS ON LAKE ERIE

	Miles
ASHTABULA, OHIO, Outer Entrance	321
BAR POINT EAST CHANNEL GAS & BELL BUOY No. 2	434

	Miles
BUFFALO, N. Y., Buffalo Light	238
CLEVELAND, OHIO, E. Pierhead Light	377
CONNEAUT, OHIO, Outer Entrance	309
ERIE, PA., Presque Isle Pierhead Light	282
FAIRPORT, OHIO, Outer Entrance	347
HURON, OHIO, Huron Light	375
LONG POINT	264
LORAIN, OHIO, West Pier Light	396
PORT COLBORNE, ONT	217
SANDUSKY, OHIO, E. End Dock Channel	420
TOLEDO, OHIO, Manhattan Front Range Light	453

CAPE VINCENT, N. Y.

Breakwater Lights

TO POINTS ON LAKE ONTARIO

	Miles
ALEXANDRIA BAY, N. Y., Docks	26
CHARLOTTE, N. Y., Genesee Lights	87
FAIRHAVEN, N. Y., Front Range Light	58
HAMILTON, ONT., Docks	187
KINGSTON, ONT., Docks	22
LEWISTON, N. Y., Docks	160
NIAGARA-ON-THE-LAKE, ONT., Front Light	154
OGDENSBURG, N. Y., Ogdensburg Light	59
OSWEGO, N. Y., Oswego Light	49

	Miles
PORT DALHOUSIE, ONT., Front Range Light	162
PORT WELLER, ONT	160
SACKETTS HARBOR, N. Y., Docks	28
SODUS, N. Y., Outer Light	68
TORONTO, ONT., Docks	159

NOTE: The following distances from Cape Vincent are via Port Dalhousie. Distances via Port Weller are two miles less in each case.

TO PRINCIPAL POINTS ON LAKE SUPERIOR

Via up bound courses through Detroit and St. Marys rivers and Lake Huron. For down bound distances see reverse courses.

	Miles
ASHLAND, WIS., Wharf Front via up bound course through Lake Superior. For down bound distance see reverse course.	1113

Miles

DULUTH, MINN., Piers.....1158
via up bound course through Lake Superior. For down bound distance see reverse course.

FORT WILLIAM, ONT., Black Gas Buoy 1038
via up bound course through Lake Superior. For down bound distance see reverse course.

HOUGHTON & HANCOCK, MICH.....986

JACKFISH, ONT. 973
via up bound course through Lake Superior. For down bound distance see reverse course.

MARQUETTE, MICH., Breakwater Light.923

PORT ARTHUR, ONT., Red Gas Buoy..1039
via up bound course through Lake Superior. For down bound distance see reverse course.

SUPERIOR, WIS., Entry.....1156
via up bound course through Lake Superior. For down bound distance see reverse course.

TWO HARBORS, MINN., Breakwater Light 1134
via up bound course through Lake Superior. For down bound distance see reverse course.

WHITEFISH POINT 806

TO POINTS ON ST. MARYS RIVER

Miles

SOO LOCKS, American.....764
via up bound courses through Detroit and St. Marys rivers and Lake Huron. For down bound distance see reverse course.

TO PRINCIPAL POINTS ON LAKE MICHIGAN

Via up bound courses through Detroit River and Lake Huron. For down bound distances see reverse courses.

Miles

CHICAGO, ILL., Pierhead Range Light..1065
Via northabout course through Lake Michigan 1086

ESCANABA, MICH., West Light.....871
via northabout course and St. Martin Island Passage.

GARY, IND. 1078
Via northabout course through Lake Michigan 1099

Miles

GLADSTONE, MICH. 878
via northabout course and St. Martin Island Passage.

GREEN BAY, WIS., River Mouth.....939
via northabout course and Rock Island Passage.

MILWAUKEE, WIS., Pierhead Range Light 1000

Via northabout course through Lake Michigan 1017

OLD MACKINAC POINT.....742

PORTE DES MORTS PASSAGE, Pilot Island Light 866
via northabout course through Lake Michigan.

ROCK ISLAND PASSAGE, Red Gas Buoy No. 2.....848
via northabout course through Lake Michigan.

SHEBOYGAN, WIS., Breakwater Light..954

Via northabout course through Lake Michigan 968

SOUTH CHICAGO, ILL., Pierhead Light.1074

Via northabout course through Lake Michigan 1094

TO PRINCIPAL POINTS ON LAKE HURON

Via up bound course through Detroit River. For down bound distances see reverse courses.

	Miles
DEPOT HARBOR, ONT	745
DETOUR via up bound course through Lake Huron. For down bound distance see reverse course.	716
FORT GRATIOT LIGHT	498
HARBOR BEACH, MICH., North Main Light	560
OLD MACKINAC POINT via up bound course through Lake Huron. For down bound distance see reverse course.	742
OWEN SOUND, ONT	741
PARRY SOUND, ONT	749
ROGERS CITY, MICH via up bound course through Lake Huron. For down bound distance see reverse course.	690

TO PRINCIPAL POINTS ON ST. CLAIR & DETROIT RIVERS

Via up bound course through Detroit River. For down bound distances see reverse courses.

	Miles
AMHERSTBURG, ONT.	416
BAR POINT EAST CHANNEL GAS & BELL BUOY No. 2	407
DETROIT, MICH., Foot Woodward Ave.	434
MARINE CITY, MICH	476
PORT HURON, MICH. (Black River) & SARNIA, ONT.	495
WYANDOTTE, MICH.	424

TO PRINCIPAL POINTS ON LAKE ERIE

	Miles
ASHTABULA, OHIO, Outer Entrance	294
BAR POINT EAST CHANNEL GAS & BELL BUOY No. 2	407

Miles

BUFFALO, N. Y., Buffalo Light.....211

CLEVELAND, OHIO, E. Pierhead Light.350

CONNEAUT, OHIO, Outer Entrance.....282

ERIE, PA., Presque Isle Pierhead Light...255

FAIRPORT, OHIO, Outer Entrance.....320

HURON, OHIO, Huron Light.....348

LONG POINT 237

LORAIN, OHIO, West Pier Light.....369

PORT COLBORNE, ONT.....190

SANDUSKY, OHIO, E. End Dock Channel 393

TOLEDO, OHIO, Manhattan Front Range Light 426

CHARLOTTE, N. Y.

Genesee Lights

TO POINTS ON LAKE ONTARIO

	Miles
ALEXANDRIA BAY, N. Y., Docks	115
CAPE VINCENT, N. Y., Breakwater Lights	87
FAIRHAVEN, N. Y., Front Range Light	48
HAMILTON, ONT., Docks	120
KINGSTON, ONT., Docks	90
LEWISTON, N. Y., Docks	93
NIAGARA-ON-THE-LAKE, ONT., Front Light	87
OGDENSBURG, N. Y., Ogdensburg Light	148
OSWEGO, N. Y., Oswego Light	58

	Miles
PORT DALHOUSIE, ONT., Front Range Light	94
PORT WELLER, ONT	92
SACKETTS HARBOR, N. Y., Docks	89
SODUS, N. Y., Outer Light	35
TORONTO, ONT., Docks	95

NOTE: The following distances from Charlotte are via Port Dalhousie. Distances via Port Weller are two miles less in each case.

TO PRINCIPAL POINTS ON LAKE SUPERIOR

Via up bound courses through Detroit and St. Marys rivers and Lake Huron. For down bound distances see reverse courses.

	Miles
ASHLAND, WIS., Wharf Front via up bound course through Lake Superior. For down bound distance see reverse course.	1045

Miles

DULUTH, MINN., Piers.....1090
via up bound course through Lake Superior. For down bound distance see reverse course.

FORT WILLIAM, ONT., Black Gas Buoy.970
via up bound course through Lake Superior. For down bound distance see reverse course.

HOUGHTON & HANCOCK, MICH.....918

JACKFISH, ONT. 905
via up bound course through Lake Superior. For down bound distance see reverse course.

MARQUETTE, MICH., Breakwater Light.855

PORT ARTHUR, ONT., Red Gas Buoy...971
via up bound course through Lake Superior. For down bound distance see reverse course.

SUPERIOR, WIS., Entry.....1088
via up bound course through Lake Superior. For down bound distance see reverse course.

TWO HARBORS, MINN., Breakwater Light 1066
via up bound course through Lake Superior. For down bound distance see reverse course.

WHITEFISH POINT 738

TO POINTS ON ST. MARYS RIVER

Miles

SOO LOCKS, American.....696
via up bound courses through Detroit and St. Marys rivers and Lake Huron. For down bound distance see reverse course.

TO PRINCIPAL POINTS ON LAKE MICHIGAN

Via up bound courses through Detroit River and Lake Huron. For down bound distances see reverse courses.

Miles

CHICAGO, ILL., Pierhead Range Light..997
Via northabout course through Lake Michigan 1018

ESCANABA, MICH., West Light.....803
via northabout course and St. Martin Island Passage.

GARY, IND. 1010
Via northabout course through Lake Michigan 1031

Miles

GLADSTONE, MICH. 810
via northabout course and St. Martin Island Passage.

GREEN BAY, WIS., River Mouth.....871
via northabout course and Rock Island Passage.

MILWAUKEE, WIS., Pierhead Range Light 932
Via northabout course through Lake Michigan 949

OLD MACKINAC POINT.....674

PORTE DES MORTS PASSAGE, Pilot Island Light 798
via northabout course through Lake Michigan.

ROCK ISLAND PASSAGE, Red Gas Buoy No. 2.....780
via northabout course through Lake Michigar

SHEBOYGAN, WIS., Breakwater Light..886
Via northabout course through Lake Michigan 900

SOUTH CHICAGO, ILL., Pierhead Light.1006
Via northabout course through Lake Michigan 1026

TO PRINCIPAL POINTS ON LAKE HURON

Via up bound course through Detroit River. For down bound distances see reverse courses.

Miles

DEPOT HARBOR, ONT.....677

DETOUR 648
via up bound course through Lake Huron. For down bound distance see reverse course.

FORT GRATIOT LIGHT.....430

HARBOR BEACH, MICH., North Main Light 492

OLD MACKINAC POINT.....674
via up bound course through Lake Huron. For down bound distance see reverse course.

OWEN SOUND, ONT.....673

PARRY SOUND, ONT.....681

ROGERS CITY, MICH.....622
via up bound course through Lake Huron. For down bound distance see reverse course.

TO PRINCIPAL POINTS ON ST. CLAIR & DETROIT RIVERS

Via up bound course through Detroit River. For down bound distances see reverse courses.

	Miles
AMHERSTBURG, ONT.	348
BAR POINT EAST CHANNEL GAS & BELL BUOY No. 2	339
DETROIT, MICH., Foot Woodward Ave.	366
MARINE CITY, MICH	408
PORT HURON, MICH. (Black River) & SARNIA, ONT.	427
WYANDOTTE, MICH.	356

TO PRINCIPAL POINTS ON LAKE ERIE

	Miles
ASHTABULA, OHIO, Outer Entrance	226
BAR POINT EAST CHANNEL GAS & BELL BUOY No. 2	339

	Miles
BUFFALO, N. Y., Buffalo Light	143
CLEVELAND, OHIO, E. Pierhead Light	282
CONNEAUT, OHIO, Outer Entrance	214
ERIE, PA., Presque Isle Pierhead Light	187
FAIRPORT, OHIO, Outer Entrance	252
HURON, OHIO, Huron Light	280
LONG POINT	169
LORAIN, OHIO, West Pier Light	301
PORT COLBORNE, ONT	122
SANDUSKY, OHIO, E. End Dock Channel	325
TOLEDO, OHIO, Manhattan Front Range Light	358

FAIRHAVEN, N. Y.
Front Range Light

TO POINTS ON LAKE ONTARIO

	Miles
ALEXANDRIA BAY, N. Y., Docks	85
CAPE VINCENT, N. Y., Breakwater Lights	58
CHARLOTTE, N. Y., Genesee Lights	48
HAMILTON, ONT., Docks	160
KINGSTON, ONT., Docks	64
LEWISTON, N. Y., Docks	134
NIAGARA-ON-THE-LAKE, ONT., Front Light	128
OGDENSBURG, N. Y., Ogdensburg Light	118

Miles

OSWEGO, N. Y., Oswego Light..... 15

PORT DALHOUSIE, ONT., Front Range Light 135

PORT WELLER, ONT.....133

SACKETTS HARBOR, N. Y., Docks..... 53

SODUS, N. Y., Outer Light..... 16

TORONTO, ONT., Docks.....136

HAMILTON, ONT.
Docks

TO POINTS ON LAKE ONTARIO

	Miles
ALEXANDRIA BAY, N. Y., Docks	213
CAPE VINCENT, N. Y., Breakwater Lights	187
CHARLOTTE, N. Y., Genesee Lights	120
FAIRHAVEN, N. Y., Front Range Light	160
KINGSTON, ONT., Docks	189
LEWISTON, N. Y., Docks	47
NIAGARA-ON-THE-LAKE, ONT., Front Light	41
OGDENSBURG, N. Y., Ogdensburg Light	246
OSWEGO, N. Y., Oswego Light	169

Hamilton, Ont.—Cont.

Miles

PORT DALHOUSIE, ONT., Front Range Light 31

PORT WELLER, ONT. 33

SACKETTS HARBOR, N. Y., Docks 194

SODUS, N. Y., Outer Light 148

TORONTO, ONT., Docks 37

KINGSTON, ONT.
Docks

TO POINTS ON LAKE ONTARIO

	Miles
ALEXANDRIA BAY, N. Y., Docks	33
CAPE VINCENT, N. Y., Breakwater Lights	22
CHARLOTTE, N. Y., Genesee Lights	90
FAIRHAVEN, N. Y., Front Range Light	64
HAMILTON, ONT., Docks	189
LEWISTON, N. Y., Docks	163
NIAGARA-ON-THE-LAKE, ONT., Front Light	157
OGDENSBURG, N. Y., Ogdensburg Light	66
OSWEGO, N. Y., Oswego Light	56

Miles

PORT DALHOUSIE, ONT., Front Range Light 164

PORT WELLER, ONT. 162

SACKETTS HARBOR, N. Y., Docks. 32

SODUS, N. Y., Outer Light. 72

TORONTO, ONT., Docks. 162

LEWISTON, N. Y.
Docks

TO POINTS ON LAKE ONTARIO

Miles

ALEXANDRIA BAY, N. Y., Docks.....188

CAPE VINCENT, N. Y., Breakwater Lights 160

CHARLOTTE, N. Y., Genesee Lights..... 93

FAIRHAVEN, N. Y., Front Range Light.134

HAMILTON, ONT., Docks..... 47

KINGSTON, ONT., Docks.....163

NIAGARA-ON-THE-LAKE, ONT., Front Light 62

OGDENSBURG, N. Y., Ogdensburg Light 221

OSWEGO, N. Y., Oswego Light.....143

Miles

PORT DALHOUSIE, ONT., Front Range Light 21

PORT WELLER, ONT. 19

SACKETTS HARBOR, N. Y., Docks 167

SODUS, N. Y., Outer Light 121

TORONTO, ONT., Docks 36

NIAGARA-ON-THE-LAKE, ONT.
Front Light

TO POINTS ON LAKE ONTARIO

	Miles
ALEXANDRIA BAY, N. Y., Docks	182
CAPE VINCENT, N. Y., Breakwater Lights	154
CHARLOTTE, N. Y., Genesee Lights	87
FAIRHAVEN, N. Y., Front Range Light	128
HAMILTON, ONT., Docks	41
KINGSTON, ONT., Docks	157
LEWISTON, N. Y., Docks	6
OGDENSBURG, N. Y., Ogdensburg Light	215
OSWEGO, N. Y., Oswego Light	137

Niagara-on-the-Lake, Ont.—Cont.

Miles

PORT DALHOUSIE, ONT., Front Range Light 15

PORT WELLER, ONT 13

SACKETTS HARBOR, N. Y., Docks 161

SODUS, N. Y., Outer Light 115

TORONTO, ONT., Docks 30

OGDENSBURG, N. Y.

Ogdensburg Light

TO POINTS ON LAKE ONTARIO

	Miles
ALEXANDRIA BAY, N. Y., Docks	33
CAPE VINCENT, N. Y., Breakwater Lights	59
CHARLOTTE, N. Y., Genesee Lights	148
FAIRHAVEN, N. Y., Front Range Light	118
HAMILTON, ONT., Docks	246
KINGSTON, ONT., Docks	66
LEWISTON, N. Y., Docks	221
NIAGARA-ON-THE-LAKE, ONT., Front Light	215
OSWEGO, N. Y., Oswego Light	108

Miles

PORT DALHOUSIE, ONT., Front Range Light 222

PORT WELLER, ONT. 220

SACKETTS HARBOR, N. Y., Docks. 85

SODUS, N. Y., Outer Light. 128

TORONTO, ONT., Docks. 219

NOTE: The following distances from Ogdensburg are via Port Dalhousie. Distances via Port Weller are 2 miles less in each case.

TO PRINCIPAL POINTS ON LAKE SUPERIOR

Via up bound courses through Detroit and St. Marys rivers and Lake Huron. For down bound distances see reverse courses.

Miles

ASHLAND, WIS., Wharf Front. 1173
via up bound course through Lake Superior. For down bound distance see reverse course.

Miles

DULUTH, MINN., Piers.....1218
via up bound course through Lake Superior. For down bound distance see reverse course.

FORT WILLIAM, ONT., Black Gas Buoy 1098
via up bound course through Lake Superior. For down bound distance see reverse course.

HOUGHTON & HANCOCK, MICH....1046

JACKFISH, ONT. 1033
via up bound course through Lake Superior. For down bound distance see reverse course.

MARQUETTE, MICH., Breakwater Light.983

PORT ARTHUR, ONT., Red Gas Buoy..1099
via up bound course through Lake Superior. For down bound distance see reverse course.

SUPERIOR, WIS., Entry.....1216
via up bound course through Lake Superior. For down bound distance see reverse course.

TWO HARBORS, MINN., Breakwater Light 1194
via up bound course through Lake Superior. For down bound distance see reverse course.

WHITEFISH POINT 866

TO POINTS ON ST. MARYS RIVER

Miles

SOO LOCKS, American.....824
via up bound courses through Detroit and St. Marys rivers and Lake Huron. For down bound distance see reverse course.

TO PRINCIPAL POINTS ON LAKE MICHIGAN

Via up bound courses through Detroit River and Lake Huron. For down bound distances see reverse courses.

Miles

CHICAGO, ILL., Pierhead Range Light.1125
Via northabout course through Lake Michigan 1146

ESCANABA, MICH., West Light.....931
via northabout course and St. Martin Island Passage.

GARY, IND. 1138
Via northabout course through Lake Michigan 1159

Miles

GLADSTONE, MICH. 938
via northabout course and St. Martin Island Passage.

GREEN BAY, WIS., River Mouth.....999
via northabout course and Rock Island Passage.

MILWAUKEE, WIS., Pierhead Range Light 1060
Via northabout course through Lake Michigan 1077

OLD MACKINAC POINT.....802

PORTE DES MORTS PASSAGE, Pilot Island Light 926
via northabout course through Lake Michigan.

ROCK ISLAND PASSAGE, Red Gas Buoy No. 2.....908
via northabout course through Lake Michigan.

SHEBOYGAN, WIS., Breakwater Light..1014
Via northabout course through Lake Michigan 1028

SOUTH CHICAGO, ILL., Pierhead Light.1134
Via northabout course through Lake Michigan 1154

TO PRINCIPAL POINTS ON LAKE HURON

Via up bound course through Detroit River. For down bound distances see reverse courses.

Miles

DEPOT HARBOR, ONT.....805

DETOUR 776
via up bound course through Lake Huron. For down bound distance see reverse course.

FORT GRATIOT LIGHT.....558

HARBOR BEACH, MICH., North Main Light 620

OLD MACKINAC POINT.....802
via up bound course through Lake Huron. For down bound distance see reverse course.

OWEN SOUND, ONT.....801

PARRY SOUND, ONT.....809

ROGERS CITY, MICH.....750
via up bound course through Lake Huron. For down bound distance see reverse course.

TO PRINCIPAL POINTS ON ST. CLAIR & DETROIT RIVERS

Via up bound course through Detroit River. For down bound distances see reverse courses.

	Miles
AMHERSTBURG, ONT.	476
BAR POINT EAST CHANNEL GAS & BELL BUOY No. 2	467
DETROIT, MICH., Foot Woodward Ave.	494
MARINE CITY, MICH	536
PORT HURON, MICH. (Black River) & SARNIA, ONT.	555
WYANDOTTE, MICH.	484

TO PRINCIPAL POINTS ON LAKE ERIE

	Miles
ASHTABULA, OHIO, Outer Entrance	354
BAR POINT EAST CHANNEL GAS & BELL BUOY No. 2	467

Ogdensburg, N. Y.—Cont.

Miles

BUFFALO, N. Y., Buffalo Light.....271

CLEVELAND, OHIO, E. Pierhead Light.410

CONNEAUT, OHIO, Outer Entrance....342

ERIE, PA., Presque Isle Pierhead Light...315

FAIRPORT, OHIO, Outer Entrance.....380

HURON, OHIO, Huron Light.....408

LONG POINT 297

LORAIN, OHIO, West Pier Light.....429

PORT COLBORNE, ONT.....250

SANDUSKY, OHIO, E. End Dock Channel 453

TOLEDO, OHIO, Manhattan Front Range Light 486

OSWEGO, N. Y.

Oswego Light

TO POINTS ON LAKE ONTARIO

	Miles
ALEXANDRIA BAY, N. Y., Docks	75
CAPE VINCENT, N. Y., Breakwater Lights	49
CHARLOTTE, N. Y., Genesee Lights	58
FAIRHAVEN, N. Y., Front Range Light	15
HAMILTON, ONT., Docks	169
KINGSTON, ONT., Docks	56
LEWISTON, N. Y., Docks	143
NIAGARA-ON-THE-LAKE, ONT., Front Light	137
OGDENSBURG, N. Y., Ogdensburg Light	108

Miles

PORT DALHOUSIE, ONT., Front Range Light 144

PORT WELLER, ONT. 142

SACKETTS HARBOR, N. Y., Docks. 41

SODUS, N. Y., Outer Light. 29

TORONTO, ONT., Docks. 145

NOTE: The following distances from Oswego are via Port Dalhousie. Distances via Port Weller are 2 miles less in each case.

TO PRINCIPAL POINTS ON LAKE SUPERIOR

Via up bound courses through Detroit and St. Marys rivers and Lake Huron. For down bound distances see reverse courses.

Miles

ASHLAND, WIS., Wharf Front. 1095
via up bound course through Lake Superior. For down bound distance see reverse course.

Miles

DULUTH, MINN., Piers.....1140
via up bound course through Lake Superior. For down bound distance see reverse course.

FORT WILLIAM, ONT., Black Gas Buoy 1020
via up bound course through Lake Superior. For down bound distance see reverse course.

HOUGHTON & HANCOCK, MICH.....968

JACKFISH, ONT. 955
via up bound course through Lake Superior. For down bound distance see reverse course.

MARQUETTE, MICH., Breakwater Light.905

PORT ARTHUR, ONT., Red Gas Buoy..1021
via up bound course through Lake Superior. For down bound distance see reverse course.

SUPERIOR, WIS., Entry.....1138
via up bound course through Lake Superior. For down bound distance see reverse course.

TWO HARBORS, MINN., Breakwater Light 1116
via up bound course through Lake Superior. For down bound distance see reverse course.

WHITEFISH POINT 788

TO POINTS ON ST. MARYS RIVER

Miles

SOO LOCKS, American.....746
via up bound courses through Detroit and St. Marys rivers and Lake Huron. For down bound distance see reverse course.

TO PRINCIPAL POINTS ON LAKE MICHIGAN

Via up bound courses through Detroit River and Lake Huron. For down bound distances see reverse courses.

Miles

CHICAGO, ILL., Pierhead Range Light..1047
Via northabout course through Lake Michigan 1068

ESCANABA, MICH., West Light.....853
via northabout course and St. Martin Island Passage.

GARY, IND. 1060
Via northabout course through Lake Michigan 1081

Miles

GLADSTONE, MICH. 860
via northabout course and St. Martin Island Passage.

GREEN BAY, WIS., River Mouth.....921
via northabout course and Rock Island Passage.

MILWAUKEE, WIS., Pierhead Range Light 982
Via northabout course through Lake Michigan 999

OLD MACKINAC POINT.....724

PORTE DES MORTS PASSAGE, Pilot Island Light 848
via northabout course through Lake Michigan.

ROCK ISLAND PASSAGE, Red Gas Buoy No. 2.....830
via northabout course through Lake Michigan.

SHEBOYGAN, WIS., Breakwater Light..936
Via northabout course through Lake Michigan 950

SOUTH CHICAGO, ILL., Pierhead Light.1056
Via northabout course through Lake Michigan 1076

TO PRINCIPAL POINTS ON LAKE HURON

Via up bound course through Detroit River. For down bound distances see reverse courses.

Miles

DEPOT HARBOR, ONT.....727

DETOUR 698
via up bound course through Lake Huron. For down bound distance see reverse course.

FORT GRATIOT LIGHT.....480

HARBOR BEACH, MICH., North Main Light 542

OLD MACKINAC POINT.....724
via up bound course through Lake Huron. For down bound distance see reverse course.

OWEN SOUND, ONT.....723

PARRY SOUND, ONT.....731

ROGERS CITY, MICH.....672
via up bound course through Lake Huron. For down bound distance see reverse course.

TO PRINCIPAL POINTS ON ST. CLAIR & DETROIT RIVERS

Via up bound course through Detroit River. For down bound distances see reverse courses.

	Miles
AMHERSTBURG, ONT.	398
BAR POINT EAST CHANNEL GAS & BELL BUOY No. 2	389
DETROIT, MICH., Foot Woodward Ave.	416
MARINE CITY, MICH	458
PORT HURON, MICH. (Black River) & SARNIA, ONT.	477
WYANDOTTE, MICH.	406

TO PRINCIPAL POINTS ON LAKE ERIE

	Miles
ASHTABULA, OHIO, Outer Entrance	276
BAR POINT EAST CHANNEL GAS & BELL BUOY No. 2	389

Oswego, N. Y.—Cont.

	Miles
BUFFALO, N. Y., Buffalo Light	193
CLEVELAND, OHIO, E. Pierhead Light	332
CONNEAUT, OHIO, Outer Entrance	264
ERIE, PA., Presque Isle Pierhead Light	237
FAIRPORT, OHIO, Outer Entrance	302
HURON, OHIO, Huron Light	330
LONG POINT	219
LORAIN, OHIO, West Pier Light	351
PORT COLBORNE, ONT	172
SANDUSKY, OHIO, E. End Dock Channel	375
TOLEDO, OHIO, Manhattan Front Range Light	408

PORT DALHOUSIE, ONT.

Front Range Light

TO POINTS ON LAKE ONTARIO

	Miles
ALEXANDRIA BAY, N. Y., Docks	189
CAPE VINCENT, N. Y., Breakwater Lights	162
CHARLOTTE, N. Y., Genesee Lights	94
FAIRHAVEN, N. Y., Front Range Light	135
HAMILTON, ONT., Docks	31
KINGSTON, ONT., Docks	164
LEWISTON, N. Y., Docks	21
NIAGARA-ON-THE-LAKE, ONT., Front Light	15
OGDENSBURG, N. Y., Ogdensburg Light	222

Miles

OSWEGO, N. Y., Oswego Light.....144

PORT WELLER, ONT..... 4

SACKETTS HARBOR, N. Y., Docks.....168

SODUS, N. Y., Outer Light.....122

TORONTO, ONT., Docks..... 31

TO PRINCIPAL POINTS ON LAKE SUPERIOR

Via up bound courses through Detroit and St. Marys rivers and Lake Huron. For down bound distances see reverse courses.

Miles

ASHLAND, WIS., Wharf Front.....951
via up bound course through Lake Superior. For down bound distance see reverse course.

DULUTH, MINN., Piers.....996
via up bound course through Lake Superior. For down bound distance see reverse course.

FORT WILLIAM, ONT., Black Gas Buoy.876
via up bound course through Lake Superior. For down bound distance see reverse course.

Miles

HOUGHTON & HANCOCK, MICH.....824

JACKFISH, ONT. 811
via up bound course through Lake Superior. For down bound distance see reverse course.

MARQUETTE, MICH., Breakwater Light.761

PORT ARTHUR, ONT., Red Gas Buoy...877
via up bound course through Lake Superior. For down bound distance see reverse course.

SUPERIOR, WIS., Entry.....994
via up bound course through Lake Superior. For down bound distance see reverse course.

TWO HARBORS, MINN., Breakwater Light 972
via up bound course through Lake Superior. For down bound distance see reverse course.

WHITEFISH POINT 644

TO POINTS ON ST. MARYS RIVER

Miles

SOO LOCKS, American.....602
via up bound courses through Detroit and St. Marys rivers and Lake Huron. For down bound distance see reverse course.

TO PRINCIPAL POINTS ON LAKE MICHIGAN

Via up bound courses through Detroit River and Lake Huron. For down bound distances see reverse courses.

Miles

CHICAGO, ILL., Pierhead Range Light..903
Via northabout course through Lake Michigan 924

ESCANABA, MICH., West Light.....709
via northabout course and St. Martin Island Passage.

GARY, IND. 916
Via northabout course through Lake Michigan 937

Miles

GLADSTONE, MICH. 716
via northabout course and St. Martin Island Passage.

GREEN BAY, WIS., River Mouth.....777
via northabout course and Rock Island Passage.

MILWAUKEE, WIS., Pierhead Range Light 838

Via northabout course through Lake Michigan 855

OLD MACKINAC POINT.....580

PORTE DES MORTS PASSAGE, Pilot Island Light 704
via northabout course through Lake Michigan.

ROCK ISLAND PASSAGE, Red Gas Buoy No. 2.....686
via northabout course through Lake Michigan.

SHEBOYGAN, WIS., Breakwater Light..792

Via northabout course through Lake Michigan 806

SOUTH CHICAGO, ILL., Pierhead Light.912

Via northabout course through Lake Michigan 932

TO PRINCIPAL POINTS ON LAKE HURON

Via up bound course through Detroit River. For down bound distances see reverse courses.

	Miles
DEPOT HARBOR, ONT	583
DETOUR via up bound course through Lake Huron. For down bound distance see reverse course.	554
FORT GRATIOT LIGHT	336
HARBOR BEACH, MICH., North Main Light	398
OLD MACKINAC POINT via up bound course through Lake Huron. For down bound distance see reverse course.	580
OWEN SOUND, ONT	579
PARRY SOUND, ONT	587
ROGERS CITY, MICH via up bound course through Lake Huron. For down bound distance see reverse course.	528

TO PRINCIPAL POINTS ON ST. CLAIR & DETROIT RIVERS

Via up bound course through Detroit River. For down bound distances see reverse courses.

	Miles
AMHERSTBURG, ONT.	254
BAR POINT EAST CHANNEL GAS & BELL BUOY No. 2	245
DETROIT, MICH., Foot Woodward Ave.	272
MARINE CITY, MICH	314
PORT HURON, MICH. (Black River) & SARNIA, ONT.	333
WYANDOTTE, MICH.	262

TO PRINCIPAL POINTS ON LAKE ERIE

	Miles
ASHTABULA, OHIO, Outer Entrance	132
BAR POINT EAST CHANNEL GAS & BELL BUOY No. 2	245

Port Dalhousie, Ont.—Cont.

	Miles
BUFFALO, N. Y., Buffalo Light	49
CLEVELAND, OHIO, E. Pier Light	188
CONNEAUT, OHIO, Outer Entrance	120
ERIE, PA., Presque Isle Pierhead Light	93
FAIRPORT, OHIO, Outer Entrance	158
HURON, OHIO, Huron Light	186
LONG POINT	75
LORAIN, OHIO, West Pier Light	207
PORT COLBORNE, ONT	28
SANDUSKY, OHIO, E. End Dock Channel	231
TOLEDO, OHIO, Manhattan Front Range Light	264

PORT WELLER, ONT.

TO POINTS ON LAKE ONTARIO

	Miles
ALEXANDRIA BAY, N. Y., Docks	187
CAPE VINCENT, N. Y., Breakwater Lights	160
CHARLOTTE, N. Y., Genesee Lights	92
FAIRHAVEN, N. Y., Front Range Light	133
HAMILTON, ONT., Docks	33
KINGSTON, ONT., Docks	162
LEWISTON, N. Y., Docks	19
NIAGARA-ON-THE-LAKE, ONT., Front Light	13
OGDENSBURG, N. Y., Ogdensburg Light	220
OSWEGO, N. Y., Oswego Light	142

Miles

PORT DALHOUSIE, ONT., Front Range Light 4

SACKETTS HARBOR, N. Y., Docks.....166

SODUS, N. Y., Outer Light.....120

TORONTO, ONT., Docks..... 30

NOTE: The following distances are through the new Welland Canal. Distances via Port Dalhousie are 4 miles greater.

TO PRINCIPAL POINTS ON LAKE SUPERIOR

Via up bound courses through Detroit and St. Marys rivers and Lake Huron. For down bound distances see reverse courses.

Miles

ASHLAND, WIS., Wharf Front.....951
via up bound course through Lake Superior. For down bound distance see reverse course.

DULUTH, MINN., Piers.....996
via up bound course through Lake Superior. For down bound distance see reverse course.

Miles

FORT WILLIAM, ONT., Black Gas Buoy.876
via up bound course through Lake Superior. For down bound distance see reverse course.

HOUGHTON & HANCOCK, MICH.....824

JACKFISH, ONT. 811
via up bound course through Lake Superior. For down bound distance see reverse course.

MARQUETTE, MICH., Breakwater Light.761

PORT ARTHUR, ONT., Red Gas Buoy...877
via up bound course through Lake Superior. For down bound distance see reverse course.

SUPERIOR, WIS., Entry.....994
via up bound course through Lake Superior. For down bound distance see reverse course.

TWO HARBORS, MINN., Breakwater Light 972
via up bound course through Lake Superior. For down bound distance see reverse course.

WHITEFISH POINT 644

TO POINTS ON ST. MARYS RIVER

Miles

SOO LOCKS, American.....602
via up bound courses through Detroit and St. Marys rivers and Lake Huron. For down bound distance see reverse course.

TO PRINCIPAL POINTS ON LAKE MICHIGAN

Via up bound courses through Detroit River and Lake Huron. For down bound distances see reverse courses.

Miles

CHICAGO, ILL., Pierhead Range Light..903
Via northabout course through Lake Michigan 924

ESCANABA, MICH., West Light.....709
via northabout course and St. Martin Island Passage.

GARY, IND. 916
Via northabout course through Lake Michigan 937

Miles

GLADSTONE, MICH. 716
via northabout course and St. Martin Island Passage.

GREEN BAY, WIS., River Mouth.....777
via northabout course and Rock Island Passage.

MILWAUKEE, WIS., Pierhead Range Light 838
Via northabout course through Lake Michigan 855

OLD MACKINAC POINT.....580

PORTE DES MORTS PASSAGE, Pilot Island Light.....704
via northabout course through Lake Michigan.

ROCK ISLAND PASSAGE, Red Gas Buoy No. 2.....686
via northabout course through Lake Michigan.

SHEBOYGAN, WIS., Breakwater Light..792
Via northabout course through Lake Michigan 806

SOUTH CHICAGO, ILL., Pierhead Light.912
Via northabout course through Lake Michigan 932

TO PRINCIPAL POINTS ON LAKE HURON

Via up bound course through Detroit River. For down bound distances see reverse courses.

Miles

DEPOT HARBOR, ONT.....583

DETOUR 554
via up bound course through Lake Huron. For down bound distance see reverse course.

FORT GRATIOT LIGHT.....336

HARBOR BEACH, MICH., North Main Light 398

OLD MACKINAC POINT.....580
via up bound course through Lake Huron. For down bound distance see reverse course.

OWEN SOUND, ONT.....579

PARRY SOUND, ONT.....587

ROGERS CITY, MICH.....528
via up bound course through Lake Huron. For down bound distance see reverse course

TO PRINCIPAL POINTS ON ST. CLAIR & DETROIT RIVERS

Via up bound course through Detroit River. For down bound distances see reverse courses.

	Miles
AMHERSTBURG, ONT.	254
BAR POINT EAST CHANNEL GAS & BELL BUOY No. 2	245
DETROIT, MICH., Foot Woodward Ave.	272
MARINE CITY, MICH	314
PORT HURON, MICH. (Black River) & SARNIA, ONT.	333
WYANDOTTE, MICH.	262

TO PRINCIPAL POINTS ON LAKE ERIE

	Miles
ASHTABULA, OHIO, Outer Entrance	132
BAR POINT EAST CHANNEL GAS & BELL BUOY No. 2	245

Port Weller, Ont.—Cont.

	Miles
BUFFALO, N. Y., Buffalo Light	49
CLEVELAND, OHIO, E. Pier Light	188
CONNEAUT, OHIO, Outer Entrance	120
ERIE, PA., Presque Isle Pierhead Light	93
FAIRPORT, OHIO, Outer Entrance	158
HURON, OHIO, Huron Light	186
LONG POINT	75
LORAIN, OHIO, West Pier Light	207
PORT COLBORNE, ONT	28
SANDUSKY, OHIO, E. End Dock Channel	231
TOLEDO, OHIO, Manhattan Front Range Light	264

SACKETTS HARBOR, N. Y.
Docks

TO POINTS ON LAKE ONTARIO

	Miles
ALEXANDRIA BAY, N. Y., Docks	52
CAPE VINCENT, N. Y., Breakwater Lights	28
CHARLOTTE, N. Y., Genesee Lights	89
FAIRHAVEN, N. Y., Front Range Light	53
HAMILTON, ONT., Docks	194
KINGSTON, ONT., Docks	32
LEWISTON, N. Y., Docks	167
NIAGARA-ON-THE-LAKE, ONT., Front Light	161
OGDENSBURG, N. Y., Ogdensburg Light	85

Sacketts Harbor, N. Y.—Cont.

Miles

OSWEGO, N. Y., Oswego Light..... 41

PORT DALHOUSIE, ONT., Front Range Light 168

PORT WELLER, ONT.....166

SODUS, N. Y., Outer Light..... 64

TORONTO, ONT., Docks.....166

SODUS, N. Y.
Outer Light

TO POINTS ON LAKE ONTARIO

	Miles
ALEXANDRIA BAY, N. Y., Docks	95
CAPE VINCENT, N. Y., Breakwater Lights	68
CHARLOTTE, N. Y., Genesee Lights	35
FAIRHAVEN, N. Y., Front Range Light	16
HAMILTON, ONT., Docks	148
KINGSTON, ONT., Docks	72
LEWISTON, N. Y., Docks	121
NIAGARA-ON-THE-LAKE, ONT., Front Light	115
OGDENSBURG, N. Y., Ogdensburg Light	128

Miles

OSWEGO, N. Y., Oswego Light..... 29

PORT DALHOUSIE, ONT., Front Range Light 122

PORT WELLER, ONT.....120

SACKETTS HARBOR, N. Y., Docks..... 64

TORONTO, ONT., Docks.....125

TORONTO, ONT.

Docks

TO POINTS ON LAKE ONTARIO

	Miles
ALEXANDRIA BAY, N. Y., Docks	186
CAPE VINCENT, N. Y., Breakwater Lights	159
CHARLOTTE, N. Y., Genesee Lights	95
FAIRHAVEN, N. Y., Front Range Light	136
HAMILTON, ONT., Docks	37
KINGSTON, ONT., Docks	162
LEWISTON, N. Y., Docks	36
NIAGARA-ON-THE-LAKE, ONT., Front Light	30
OGDENSBURG, N. Y., Ogdensburg Light	219

Miles

OSWEGO, N. Y., Oswego Light.....145

PORT DALHOUSIE, ONT., Front Range Light 31

PORT WELLER, ONT..... 30

SACKETTS HARBOR, N. Y., Docks.....166

SODUS, N. Y., Outer Light.....125

NOTE: The following distances from Toronto are via Port Dalhousie. Distances via Port Weller are 1 mile less in each case.

TO PRINCIPAL POINTS ON LAKE SUPERIOR

Via up bound courses through Detroit and St. Marys rivers and Lake Huron. For down bound distances see reverse courses.

Miles

ASHLAND, WIS., Wharf Front.....982
via up bound course through Lake Superior. For down bound distance see reverse course.

Miles

DULUTH, MINN., Piers.....1027
via up bound course through Lake Superior. For down bound distance see reverse course.

FORT WILLIAM, ONT., Black Gas Buoy.907
via up bound course through Lake Superior. For down bound distance see reverse course.

HOUGHTON & HANCOCK, MICH.....855

JACKFISH, ONT. 842
via up bound course through Lake Superior. For down bound distance see reverse course.

MARQUETTE, MICH., Breakwater Light.792

PORT ARTHUR, ONT., Red Gas Buoy...908
via up bound course through Lake Superior. For down bound distance see reverse course.

SUPERIOR, WIS., Entry.....1025
via up bound course through Lake Superior. For down bound distance see reverse course.

TWO HARBORS, MINN., Breakwater Light 1003
via up bound course through Lake Superior. For down bound distance see reverse course.

WHITEFISH POINT 675

TO POINTS ON ST. MARYS RIVER

Miles

SOO LOCKS, American.....633
via up bound courses through Detroit and St. Marys rivers and Lake Huron. For down bound distance see reverse course.

TO PRINCIPAL POINTS ON LAKE MICHIGAN

Via up bound courses through Detroit River and Lake Huron. For down bound distances see reverse courses.

Miles

CHICAGO, ILL., Pierhead Range Light..934
Via northabout course through Lake Michigan 955

ESCANABA, MICH., West Light.....740
via northabout course and St. Martin Island Passage.

GARY, IND. 947
Via northabout course through Lake Michigan 968

Miles

GLADSTONE, MICH. 747
via northabout course and St. Martin Island Passage.

GREEN BAY, WIS., River Mouth.....808
via northabout course and Rock Island Passage.

MILWAUKEE, WIS., Pierhead Range Light 869
Via northabout course through Lake Michigan 886

OLD MACKINAC POINT.....611

PORTE DES MORTS PASSAGE, Pilot Island Light 735
via northabout course through Lake Michigan.

ROCK ISLAND PASSAGE, Red Gas Buoy No. 2.....717
via northabout course through Lake Michigan.

SHEBOYGAN, WIS., Breakwater Light..823
Via northabout course through Lake Michigan 837

SOUTH CHICAGO, ILL., Pierhead Light.943
Via northabout course through Lake Michigan 963

TO PRINCIPAL POINTS ON LAKE HURON

Via up bound course through Detroit River. For down bound distances see reverse courses.

Miles

DEPOT HARBOR, ONT.....614

DETOUR 585
via up bound course through Lake Huron. For down bound distance see reverse course.

FORT GRATIOT LIGHT.....367

HARBOR BEACH, MICH., North Main Light 429

OLD MACKINAC POINT.....611
via up bound course through Lake Huron. For down bound distance see reverse course.

OWEN SOUND, ONT.....610

PARRY SOUND, ONT.....618

ROGERS CITY, MICH.....559
via up bound course through Lake Huron. For down bound distance see reverse course.

TO PRINCIPAL POINTS ON ST. CLAIR & DETROIT RIVERS

Via upbound course through Detroit River. For downbound distances see reverse courses.

	Miles
AMHERSTBURG, ONT.	285
BAR POINT EAST CHANNEL GAS & BELL BUOY No. 2	276
DETROIT, MICH., Foot Woodward Ave.	303
MARINE CITY, MICH	345
PORT HURON, MICH. (Black River) & SARNIA, ONT.	364
WYANDOTTE, MICH.	293

TO PRINCIPAL POINTS ON LAKE ERIE

	Miles
ASHTABULA, OHIO, Outer Entrance	163

Miles

BAR POINT EAST CHANNEL GAS & BELL BUOY No. 2.....276

BUFFALO, N. Y., Buffalo Light..... 80

CLEVELAND, OHIO, E. Pierhead Light.219

CONNEAUT, OHIO, Outer Entrance....151

ERIE, PA., Presque Isle Pierhead Light...124

FAIRPORT, OHIO, Outer Entrance.....189

HURON, OHIO, Huron Light.....217

LONG POINT 106

LORAIN, OHIO, West Pier Light.....238

PORT COLBORNE, ONT..... 59

SANDUSKY, OHIO, E. End Dock Channel 262

TOLEDO, OHIO, Manhattan Front Range Light 295

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The tables in this book are grouped in the geographical order of the lakes and rivers as follows:

Lake Superior
St. Marys River
Lake Michigan
Lake Huron
St. Clair and Detroit rivers.
Lake Erie
Lake Ontario

The ports on each of these geographical divisions are arranged in alphabetical order, giving in the case of each important port, the distances to other ports on the same lake, and following that, the distances to ports on other lakes and rivers in the above geographical order.

For convenience there is also appended a list of all ports, alphabetically arranged, regardless of geographical location.

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